

PB90180266



NOTE: TRADE SECRET DATA HAVE BEEN REMOVED FROM THIS REPORT.

NATIONAL OCCUPATIONAL HEALTH SURVEY OF MINING

PERLITE REPORT

APRIL 29, 1988

COMMENTS SHOULD BE DIRECTED TO

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## INTRODUCTION

This is one of a series of reports on the National Occupational Health Survey of Mining (NOHSM), which is being carried out by the National Institute for Occupational Safety and Health (NIOSH). This particular report provides NOHSM data for the perlite commodity, which was surveyed during 1984 and 1985. Seven perlite mines were surveyed as a representative sample of the perlite commodity. The NOHSM began in May, 1984, as an effort by NIOSH to obtain representative data related to occupational health from the mining industry. The data collected were similar to the information previously obtained in non-mining studies. Specifically, NOHSM data include:

- a. Occupational health program and policy information;
- b. An inventory of all health-related substances found on mine property; and
- c. A series of worksite observations which detail potential exposure to chemical and physical agents.

These data are being collected by surveyors who travel to each mine site. The survey sites have been chosen so as to provide a statistically valid representation of each commodity at the time of the NOHSM sample selection. With this representative sample, NIOSH can project survey data to the entire mining industry.

The NOHSM is being carried out primarily as a service to the Mine Safety and Health Administration (MSHA), and secondarily as a source of information for NIOSH investigators and other interested parties. MSHA plans to use the data for three purposes:

1. To set regulatory priorities and write improved health standards;
2. To improve compliance with existing standards; and
3. To identify and determine research needs and priorities.

This transfer of information to MSHA is mandated by Section 201 of the 1977 Federal Mine Safety and Health Amendments Act.

This report identifies potential exposures and provides the associated numbers of workers, the occupations of those workers, and the locations on the mine property where the potential exposures were observed. This information is categorized into seven tables: four concerning chemical agents; one concerning musculoskeletal overload conditions; one physical exposure conditions; and one welding processes. Estimated annual usage information is provided for chemical substances, both generic and tradenames. As noted on page 5, several other types of data were gathered under the survey protocol, including laboratory analyses of a portion of the bulk dust taken from several locations at each operation.

For the perlite commodity, Table 1 contains 4 chemicals which were found on mine property that are regulated by MSHA. During the 7 surveys, no chemicals were encountered which would be displayed in Table 2 (chemicals found on mine property that have a NIOSH recommended exposure limit but are not regulated by MSHA). Three chemicals were found which have no NIOSH or MSHA exposure limit (Table 3). Table 4 lists 295 tradename products to which workers in the perlite commodity were found to be potentially exposed. Table 5 describes potential exposures to noise, process related temperature, segmental vibration, and whole-body vibration, the only physical agents observed by the surveyor. Table 6 lists potential exposures to the following 12 musculoskeletal conditions: prone or supine lying; standing; sitting; frequent lifting; awkward lifting; heavy lifting; diminished light; neck and/or back; wrist; lower limb; fingers and hands; and the forearm, arm, and shoulder. Table 7 indicates the ten welding processes: arc welding; oxyfuel gas cutting; arc cutting; metal arc welding; shield metal arc welding; torch brazing; flux cored arc welding; gas metal arc welding; oxyfuel welding; and oxyacetylene welding, which were observed to be used in the perlite commodity.

It is extremely important that the limitations of the reported data be recognized. The data do not in any way document exposures or exposure levels. The data only indicate potential exposures. The term "potential exposure" means the agent was observed to be present at one or more worksites in such a way that there was a possibility of workers being exposed to the agent.

Likewise, the usage data presented in some of the tables are only a guide to the projected magnitude of usage and should not be taken as precise information. The usage data are based on estimates provided by mine management. It is expected that these estimates have widely varying accuracy. Occasionally, an item may be represented as having an annual usage of zero with workers observed to be potentially exposed. This may occur because annual usage estimates are generally based on purchases of the 12 months immediately preceding a survey. Therefore, items purchased prior to that 12 month period may be represented as having a zero annual usage rate even though potential exposures were observed during the survey. Other zero annual usage occurrences could involve recyclable items such as some catalysts and desiccants, items such as paints and coatings which are applied prior to the 12 month period but which are present in the workplace in such a way as to present a potential exposure, and obsolete items which are no longer actively used on the property but to which employees could still be potentially exposed in the course of their work. Furthermore, all the estimates were rounded to the nearest whole number, with all quantities between 0 and 1 being reported as 1. Thus, extremely small usage levels may actually be lower than estimated. With this possible exception, NIOSH believes the relative magnitude to be appropriately represented.

Another limitation to be observed is the terminology associated with the commodity, occupation, and location. These terms were adapted directly from MSHA information and applied by NIOSH. NIOSH recognizes that other parties may prefer other commodity, occupation, or location terminology. The MSHA terms were used because of MSHA's close interest in the data.

A separate report will be prepared for each commodity surveyed as a part of the NOHSM. During each year of the NOHSM, approximately 150 mining operations are surveyed as the sample from a number of selected commodities. A different set of commodities is surveyed during each year.

NIOSH plans for use of these data in the future include:

- a. Encourage MSHA use of the data, as outlined above;
- b. Determine the ranges of exposure to various agents, as required by Section 201 of the 1977 Federal Mine Safety and Health Amendments Act;
- c. Assist in setting priorities for mine-related occupational health research; and
- d. Respond to questions from other parties regarding occupational health aspects of the mining industry.

Information beyond that presented in this report has been collected during the NOHSM. All of the information not protected by trade secret claims is available to the public upon detailed written request. Other categories of available information include:

- a. Management policies related to occupational health;
- b. Duration of potential exposures;
- c. Operations associated with potential exposures;
- d. Controls employed with potential exposures; and
- e. Results of bulk dust analyses for silica, metals, and fibers..

Interested parties should direct their requests to:

Project Officer  
National Occupational Health Survey of Mining  
NIOSH  
Division of Respiratory Disease Studies  
944 Chestnut Pidge Road, Room 140  
Morgantown, WV 26505-2888

TABLE DEFINITIONS

AGENT NAME	(1) # WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) # WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) % WORKERS POTENTIALLY (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(5) OCCUPATIONS	(6) LOCATIONS
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Column (1) represents the total number of workers in occupations within this commodity in which a potential exposure to an agent was observed or identified through questioning of mine management or workers. This number only includes workers from the NOHSM sample sites. A "potential exposure" means the agent was observed to be present at the worksite in such a way that there was a possibility of workers being exposed to the agent. The potential exposures do not imply any exposure level, nor do they imply the absence or presence of controls.

Column (2) represents the number of workers within this commodity predicted to be potentially exposed to each agent. This number reflects a projection to this entire commodity, based on data obtained at NOHSM sample sites.

Column (3) represents the percentage of workers within this commodity predicted to be potentially exposed to each agent. Column (3) is obtained by dividing column (2) by the projected total population of workers in the commodity.

Column (4) represents the number of gallons (GAL) or the number of pounds (LBS) of each chemical that NIOSH has estimated to be used per year. This number is obtained from projections based on estimates of usage provided by mine management, and should only be used in determining the order of magnitude of usage. It should not be used as a precise figure. This number reflects a projection to this entire commodity, based on data obtained at NOHSM sample sites. In some cases, where usage data was unavailable, a "\*" appears in this column.

Column (5) contains the occupations observed to have a potential for exposure to this agent. In each occupation, the percentage of workers with a potential for exposure to the agent is given in parentheses. This number only includes data obtained at NOHSM sample sites.

Column (6) contains the locations where workers were observed to have a potential for exposure to this agent at the NOHSM sample sites. The percentage of workers in each listed location with a potential exposure to the agent is given in parentheses. This number only includes data obtained at NOHSM sample sites.

TABLE 1, PAGE 1 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

MSHA REGULATED CHEMICALS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

CHEMICAL NAME	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
ACETYLENE	2	7	3	18,579 GALS. 1,893 LBS.	010 SURFACE MILL ( 2%)
-----					
(5) OCCUPATIONS					
619 WELDER ( 50%)					
-----					
GRAPHITE	2	2	1	1 LBS.	
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					005 SURFACE SHOP ( 10%)
-----					
DICHLORODIFLUOROMETHANE	1	1	<1	6 LBS.	
-----					
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%)					005 SURFACE SHOP ( 5%)
-----					
PROPANE	5	14	6	2,100 GALS. 9,126 LBS.	
-----					
(5) OCCUPATIONS					
376 TRUCK DRIVER ( 8%)					
619 WELDER ( 25%)					

(CONTINUED NEXT PAGE)

TABLE 1, PAGE 2 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

MSHA REGULATED CHEMICALS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

CHEMICAL NAME	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(5) OCCUPATIONS	(6) LOCATIONS
PROPANE (CONTINUED)	5	14	6	2,100 GALS. 9,126 LBS.		
					649 ADMN, SUPERVISORY, MGT PERSNL ( 18%)	010 SURFACE MILL ( 5%)
					879 BAGGING OR PACKING WRKR ( 3%)	

CHEMICALS FOUND ON MINE PROPERTY THAT HAVE A NIOSH RECOMMENDED EXPOSURE LIMIT BUT ARE NOT REGULATED BY MSHA

COMMODITY NAME: PERLITE				
CHEMICAL NAME	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE

NO DATA FOR THIS TABLE IN THIS COMMODITY



TABLE 3, PAGE 1 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

CHEMICALS FOUND ON MINE PROPERTY THAT HAVE NO NIOSH RECOMMENDATION OR MSHA EXPOSURE LIMIT

COMMODITY NAME: PERLITE

CHEMICAL NAME	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
DIESEL FUEL	30	39	16	154,905 GALS.

(5)

OCCUPATIONS

368 BULLDOZER OPTR ( 25%)	376 TRUCK DRIVER ( 15%)
619 WELDER ( 50%)	669 BIN PULLER; TRUCK LOADER ( 60%)
682 SCRAPER-LOADER OPTR (100%)	879 BAGGING OR PACKING WRKR ( 70%)

(6)  
LOCATIONS

009 SURFACE MISC ( 5%)
004 SURFACE MINE ( 18%)
010 SURFACE MILL ( 23%)

NATURAL GAS

21	21	9	1,234,200 GALS. 8,829 LBS.
----	----	---	-------------------------------

(5)

OCCUPATIONS

879 BAGGING OR PACKING WRKR ( 70%)
------------------------------------

(6)  
LOCATIONS

010 SURFACE MILL ( 20%)
-------------------------

GASOLINE-LEADED

4	14	6	11,293 GALS.
---	----	---	--------------

(5)

OCCUPATIONS

619 WELDER ( 50%)	649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)
674 WAREHOUSEMAN; SUPPLY HANDLER ( 50%)	

(6)  
LOCATIONS

010 SURFACE MILL ( 2%)
009 SURFACE MISC ( 3%)

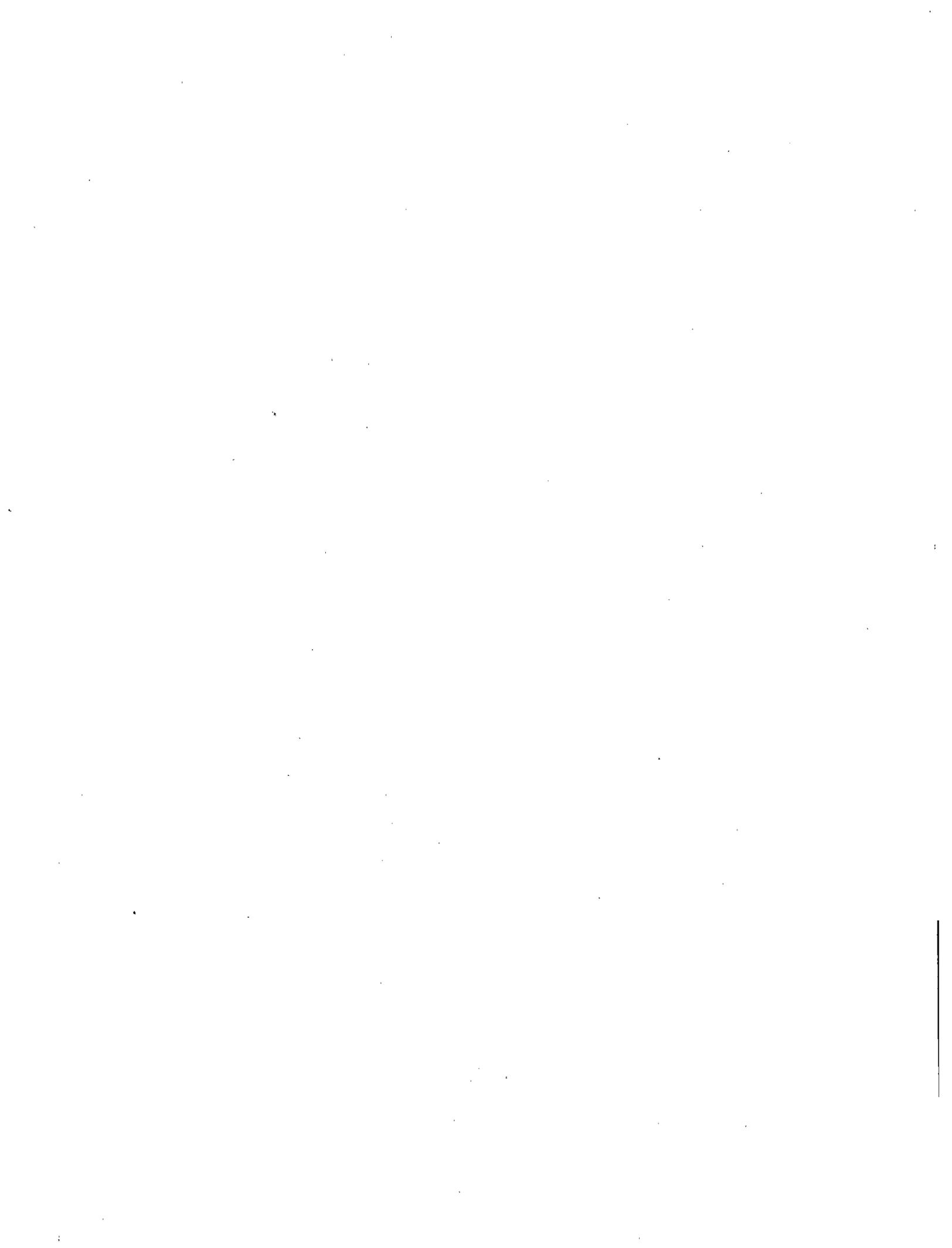


TABLE 4, PAGE 1 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
11	11	5	18 LBS.	
BELT DRESSING (AEROSOL)				
(5) OCCUPATIONS				
602 ELECTRICIAN ( 25%)				
604 MECHANIC ( 34%)				

ALL-STATE WELDING PRODUCTS DIV./CHEMTRON CORP.

11	11	5	100 LBS.	
ALL-STATE CHAMFER				
(5) OCCUPATIONS				
602 ELECTRICIAN ( 25%)				
604 MECHANIC ( 34%)				

AMERICAN CYANAMID CO. CONSUMER PRODUCTS GROUP

1	3	1	7 GALS.	
PINE-SOL				
(5) OCCUPATIONS				
649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)				
009 SURFACE MISC ( 2%)				

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
AMERICAN PETROFINA INC. 09-09-84 33133 HYDRAULIC OIL M	2	2	1	220 GALS.	004 SURFACE MINE ( 12%)
<b>OCCUPATIONS</b>					
368 BULLDOZER OPTR ( 25%)				682 SCRAPER-LOADER OPTR (100%)	
AMREP INC.					
MISTY SAFETY SOLVENT II	2	2	1	20 GALS.	005 SURFACE SHOP ( 10%)
<b>OCCUPATIONS</b>					
604 MECHANIC ( 7%)					
AMREP, INC.					
MISTY CONTACT & CIRCUIT BOARD CLEANER (AEROSOL)	1	1	<1	11 LBS.	009 SURFACE MISC ( 2%)
<b>OCCUPATIONS</b>					
602 ELECTRICIAN ( 25%)					

TABLE 4, PAGE 3 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
ANSUL CO. CO2 CARTRIDGE FOR ANSUL EXTINGU ISHER #30	1	1	<1	4 LBS.	009 SURFACE MISC ( 2%)
<hr/>					
(5) OCCUPATIONS 602 ELECTRICIAN ( 25%)					
ARCAIR COPPERCLAD POINTED ELECTRODES	7	7	3	100 LBS.	009 SURFACE MISC ( 11%)
<hr/>					
(5) OCCUPATIONS 604 MECHANIC ( 24%)					
ARCOS CORPORATION ARCOS 309-16 WELDING ELECTRODE S	2	6	2	43 LBS.	010 SURFACE MILL ( 2%)
<hr/>					
(5) OCCUPATIONS 619 WELDER ( 25%)					
<hr/>					
649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
ASHLAND OIL CO.					
MINERAL OIL 66	10	10	4	110 GALS.	
OCCUPATIONS					
604 MECHANIC ( 31%)			618 GREASER; OILER (100%)		005 SURFACE SHOP ( 45%) 010 SURFACE MILL ( 1%)

ASSOCIATED SPRING CORPORATION / BOWMAN PRODUCTS DIVISION

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
BOWMABRAZE LOW TEMPERATURE ALL OY 24910 CATALOG NO. 908	1	1	<1	3 LBS.	
OCCUPATIONS					
604 MECHANIC ( 3%)					005 SURFACE SHOP ( 5%)

ATLAS POWDER COMPANY / SUBSIDIARY OF TYLER CORPORATION

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
IREMITE	1	1	<1	2,500 LBS.	
OCCUPATIONS					
734 ROTARY DRILL OPTR (100%)					004 SURFACE MINE ( 6%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
ROCKMASTER ELECTRIC BLASTING C APS DELAYS 1 THROUGH 20	1	1	<1	220 LBS.

(5)  
OCCUPATIONS

734 ROTARY DRILL OPTR (100%)

(6)  
LOCATIONS

004 SURFACE MINE ( 6% )

S ATLAS POWER PRIMER

(5)  
OCCUPATIONS

734 ROTARY DRILL OPTR (100%)

(6)  
LOCATIONS

004 SURFACE MINE ( 6% )

BALKAMP, INC.

NAPA BALKAMP LIQUID BUFFER AND  
CLEANER 765-1322

(5)  
OCCUPATIONS

604 MECHANIC ( 7% )

(6)  
LOCATIONS

005 SURFACE SHOP ( 10% )

NAPA BALKAMP 4-515 BOOT CEMENT

(5)  
OCCUPATIONS

604 MECHANIC ( 7% )

(6)  
LOCATIONS

005 SURFACE SHOP ( 10% )

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
NAPA BALKAMP 4-638 UNIVERSAL CEMENT 765-1199	2	2	1	1 GALS.	005 SURFACE SHOP ( 10%)
<b>(5) OCCUPATIONS</b>					
604 MECHANIC ( 7%)					

BENJAMIN MOORE & CO.

IMPERVO HIGH GLOSS ENAMEL S-50 46BT67	5	17	7	86 GALS.	
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(5)

OCCUPATIONS

079 CRUSHER OPTR ( 50%)	619 WELDER ( 50%)				(6) LOCATIONS
					009 SURFACE MISC ( 5%)
					010 SURFACE MILL ( 2%)

BLACK AND DECKER

BLACK AND DECKER GRINDING WHEEL L 30100RPM	2	6	2	3 LBS.	
--	---	---	---	--------	--

(5)

OCCUPATIONS

619 WELDER ( 25%)	649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)				(6) LOCATIONS
					010 SURFACE MILL ( 2%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
BORDEN INC. 1 CP	2	2	1	25 GALS.	009 SURFACE MISC ( 3%)
ELMER'S GLUE-ALL					
(5) OCCUPATIONS					
879 BAGGING OR PACKING WRKR ( 7%)					
BORDEN, INC. DEPARTMENT HPPG					
1330 KRYLON BELT DRESSING (AER 0)	4	4	2	39 LBS.	010 SURFACE MILL ( 4%)
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					
BOWMAN DISTRIBUTION / BARNES GROUP, INC.					
BOWMAN CHAIN & CABLE LUBE NO. 19452 (AEROSOL)	2	2	1	45 LBS.	005 SURFACE SHOP ( 10%)
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
BOWMAN CLEAR SILICONE RUBBER A DHEISIVE SEALANT NO. 21438	2	2	1	1 GALS.	005 SURFACE SHOP ( 10%)
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					
-----					
BOWMAN ENGINE ENAMEL CHRYSLER- PLYMOUTH BLUE NO. 24758 (AEROSOL)	2	2	1	10 LBS.	005 SURFACE SHOP ( 10%)
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					
-----					
BOWMAN GLOSS WHITE ENAMEL NO. 24706 (AEROSOL)	2	2	1	18 LBS.	005 SURFACE SHOP ( 10%)
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					
-----					
BOWMAN SPRAY CUTTING OIL NO. 1 9459 (AEROSOL)	10	10	4	5 LBS.	010 SURFACE MILL ( 1%) 005 SURFACE SHOP ( 45%) 009 SURFACE MISC ( 11%)
(5) OCCUPATIONS					
488 DRY SCREENING PLANT OPTR ( 17%) 604 MECHANIC ( 31%)					

TABLE 4, PAGE 9 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
BOWMAN WELDING ANTI-SPLATTER N O. 21957 (AEROSOL)	11	11	5	18 LBS.	005 SURFACE SHOP ( 20%) 009 SURFACE MISC ( 11%)
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 38%)					
-----					
RU GLYDE RUBBER LUBRICANT	2	2	1	2 GALS.	(6) LOCATIONS
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					005 SURFACE SHOP ( 10%)
-----					
BOYLE-MIDWAY INC.					
GERMICIDAL SANI-FLUSH TOILET B OWL CLEANER	2	10	4	15 LBS.	(6) LOCATIONS
-----					
(5) OCCUPATIONS					
879 BAGGING OR PACKING WRKR ( 7%)					010 SURFACE MILL ( 2%)
-----					
BULLARD ABRASIVE PRODUCTS, INC.					
METAL GOLD REINFORCED ORDER NO .:BJ-105 PRODUCT NO.:53731-1 RPM:8732	10	10	4	23 LBS.	(6) LOCATIONS
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 34%)					009 SURFACE MISC ( 16%)

TABLE 4, PAGE 10 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
CAL GAS					
PROPANE	24	24	10	12,000 GALS.	

(5)  
OCCUPATIONS

389 FORKLIFT OPTR (100%)	514 LABORATORY TECHNICIAN ( 75%)
602 ELECTRICIAN ( 25%)	604 MECHANIC ( 14%)
613 CLEANUP MAN ( 75%)	616 LABORER; BULLGANG ( 50%)
649 ADMN, SUPERVISORY, MGT PERSNL ( 18%)	879 BAGGING OR PACKING WRKR ( 17%)

CAL-GAS

PROPANE	2	2	1	250 GALS.	
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(5)  
OCCUPATIONS

669 BIN PULLER; TRUCK LOADER ( 20%)	879 BAGGING OR PACKING WRKR ( 3%)
-------------------------------------	-----------------------------------

CARBORUNDUM

NIAGARA BRAND ALL PURPOSE GRIN	1	1	<1	3 LBS.	
DING WHEEL 10X1X1 MEDIUM MAX RPM 2483 CAT. NO. HAS					

(5)  
OCCUPATIONS

604 MECHANIC ( 3%)	
--------------------	--

(6)  
LOCATIONS

005 SURFACE SHOP ( 5%)
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TABLE 4, PAGE 11 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
131032, 7 1/4 BY 7/8 INCHES RE INFORCED, MAX R.P.M. 8500	10	10	4	3 LBS.	
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 34%)					
-----					

CATERPILLAR TRACTOR CO.

CATERPILLAR CEMENT 5H2471	2	2	1	1 GALS.	
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					
-----					

CHEVRON U.S.A. INC.

CHEVRON AW HYDRAULIC OIL 68	2	7	3	924 GALS.	
-----					
(5) OCCUPATIONS					
619 WELDER ( 50%)					
-----					

CHEVRON CUSTOM MOTOR OIL SAE 1  
0W-40

CHEVRON CUSTOM MOTOR OIL SAE 1 0W-40	4	14	6	92 GALS.	
-----					
(5) OCCUPATIONS					
619 WELDER ( 50%)					
-----					
				649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)	
-----					
					(6) LOCATIONS
					010 SURFACE MILL ( 2%)

(CONTINUED NEXT PAGE)

TABLE 4, PAGE 12 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
CHEVRON CUSTOM MOTOR OIL SAE 10W-40	4	14	6	92 GALS.	
(CONTINUED)					
(5) OCCUPATIONS					(6) LOCATIONS
674 WAREHOUSEMAN; SUPPLY HANDLER ( 50%)					009 SURFACE MISC ( 3%)
CHEVRON DELO 400 MOTOR OIL SAE 10W	2	7	3	68 GALS.	
(5) OCCUPATIONS					(6) LOCATIONS
619 WELDER ( 50%)					010 SURFACE MILL ( 2%)
CHEVRON DELO 400 MOTOR OIL SAE 30	3	10	4	4,517 GALS.	
(5) OCCUPATIONS					(6) LOCATIONS
376 TRUCK DRIVER ( 8%)			619 WELDER ( 50%)		004 SURFACE MINE ( 6%) 010 SURFACE MILL ( 2%)
CHEVRON DELO 400 MOTOR OIL SAE 50	2	7	3	137 GALS.	
(5) OCCUPATIONS					(6) LOCATIONS
619 WELDER ( 50%)					010 SURFACE MILL ( 2%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
CHEVRON EP INDUSTRIAL OIL 100X	2	7	3	171 GALS.	010 SURFACE MILL ( 2%)
<hr/>					
(5) OCCUPATIONS					
619 WELDER ( 50%)					
<hr/>					
CHEVRON HEAVY DUTY GREASE-2	7	24	10	893 LBS.	
<hr/>					
(5) OCCUPATIONS					(6) LOCATIONS
179 BALL, ROD, PEBBLE MILL OPTR (100%)		376	TRUCK DRIVER ( 8%)		004 SURFACE MINE ( 6%)
619 WELDER ( 50%)		649	ADMN, SUPERVISORY, MGT PERSNL ( 9%)		010 SURFACE MILL ( 7%)
<hr/>					
CHEVRON NL GEAR COMPOUND 68	2	7	3	479 LBS.	
<hr/>					
(5) OCCUPATIONS					(6) LOCATIONS
619 WELDER ( 50%)					010 SURFACE MILL ( 2%)
<hr/>					
CHEVRON TRACTOR HYDRAULIC FLUID	3	10	4	205 GALS.	
<hr/>					
(5) OCCUPATIONS					(6) LOCATIONS
376 TRUCK DRIVER ( 8%)			619	WELDER ( 50%)	004 SURFACE MINE ( 6%)
					010 SURFACE MILL ( 2%)

TABLE 4, PAGE 14 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
CHEVRON UNIVERSAL GEAR LUBRICA NTSAE 85W-140	2	7	3	359 LBS.	010 SURFACE MILL ( 2%)
<b>OCCUPATIONS</b>					
619 WELDER ( 50%)					

CLARK EQUIPMENT COMPANY

SHOE ST 4 FH4 PART NO. 124557	9	9	4	3 LBS.	009 SURFACE MISC ( 14%)
<b>OCCUPATIONS</b>					
389 FORKLIFT OPTR ( 33%)					
879 BAGGING OR PACKING WRKR ( 17%)					
616 LABORER; BULLGANG ( 50%)					

CLING-SURFACE CO.

CLING SURFACE SPRAY BELT DRESS ING (AEROSOL)	7	24	10	75 LBS.	010 SURFACE MILL ( 7%)
<b>OCCUPATIONS</b>					
179 BALL, ROD, PEBBLE MILL OPTR (100%)					
619 WELDER ( 50%)					
376 TRUCK DRIVER ( 8%) 649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)					

TABLE 4, PAGE 15 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
COILHOUSE PNEUMATICS					
COILHOUSE PNEUMATICS ATL-16 AIR TOOL LUBRICANT	1	3	1	3 GALS.	
<b>(5)</b>					
OCCUPATIONS					
619 WELDER ( 25%)					010 SURFACE MILL ( 1%)
<b>COLGATE-PALMOLIVE COMPANY</b>					
AJAX INSITUATIONAL PINE FOREST ALL PURPOSE CLEANER	1	1	<1	10 GALS.	
<b>(5)</b>					
OCCUPATIONS					
674 WAREHOUSEMAN; SUPPLY HANDLER ( 50%)					009 SURFACE MISC ( 2%)
<b>COLOMEX</b>					
PROPANE	3	3	1	34,000 GALS.	
<b>(5)</b>					
OCCUPATIONS					
379 DRYER OPTR; KILN OPTR ( 33%)					010 SURFACE MILL ( 3%)
613 CLEANUP MAN ( 25%)					

502

TABLE 4, PAGE 16 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
CONOCO INC.					
CONOCO ANTIFREEZE/COOLANT	5	5	2	60 GALS.	
<b>(5)</b>					
OCCUPATIONS					
376 TRUCK DRIVER ( 23%)			604 MECHANIC ( 7%)		009 SURFACE MISC ( 5%) 005 SURFACE SHOP ( 10%)

CONOCO, INC.

CONOCO SUPER-STA GREASE	10	10	4	910 LBS.	
<b>(5)</b>					
OCCUPATIONS					
488 DRY SCREENING PLANT OPTR ( 33%) 604 MECHANIC ( 14%)			602 ELECTRICIAN ( 25%) 616 LABORER; BULLGANG ( 50%)		005 SURFACE SHOP ( 25%) 010 SURFACE MILL ( 5%)

FLEET SAE30

	2	2	1	330 GALS.	
<b>(5)</b>					
OCCUPATIONS					
368 BULLDOZER OPTR ( 25%)			682 SCRAPER-LOADER OPTR (100%)		004 SURFACE MINE ( 12%)

CRC CHEMICAL USA

LECTR-MOTIVE ELECTRIC PARTS CLEANER, BIG A, #11-4005 AEROSOL	1	1	<1	29 LBS.	
<b>(5)</b>					
OCCUPATIONS					
602 ELECTRICIAN ( 25%)					005 SURFACE SHOP ( 5%)

TABLE 4, PAGE 17 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
--	---	--	--	-------------------------------------

CRC CHEMICALS U.S.A.

CRC CO CONTACT CLEANER NO. 020	2	7	3	41 LBS.
16PRECISION ELECTRONIC CLEANING SOVENT (AEROSOL)				

(5)  
OCCUPATIONS

619 WELDER ( 50%)

(6)  
LOCATIONS

010 SURFACE MILL ( 2%)

CRC 3-36 NO. 03005 (AEROSOL)	1	3	1	29 LBS.
------------------------------	---	---	---	---------

(5)  
OCCUPATIONS

619 WELDER ( 25%)

(6)  
LOCATIONS

010 SURFACE MILL ( 1%)

CRC CHEMICALS USA

CRC 5-56 NO. 05005-P (AEROSOL)	4	21	8	41 LBS.
--------------------------------	---	----	---	---------

(5)  
OCCUPATIONS

376 TRUCK DRIVER ( 8%)  
879 BAGGING OR PACKING WRKR ( 7%)

669 BIN PULLER; TRUCK LOADER ( 20%)

(6)  
LOCATIONS

010 SURFACE MILL ( 4%)

CRYSTAL SILICA CO.

SILICA SAND CRYSTAL WHITE 20	2	7	3	5,133 LBS.
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(5)  
OCCUPATIONS

619 WELDER ( 50%)

(6)  
LOCATIONS

010 SURFACE MILL ( 2%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
DAP INC. DURATITE WATERPROOF WEATHERPROOF, PLASTIC SURFACE PUTTY	1	3	1	3 GALS.	010 SURFACE MILL ( 1%)
(5) OCCUPATIONS 619 WELDER ( 25%)					

DAP INC. / HOME PRODUCTS DIVISION OF SCHERING-PLOUGH

DAP WHITE BUTYL FLEX CAULK	10	10	4	4 GALS.	(6) LOCATIONS 009 SURFACE MISC ( 16%)
(5) OCCUPATIONS 604 MECHANIC ( 34%)					

MITEE THREAD CUTTING OIL DARK	4	4	2	3 GALS.	(6) LOCATIONS 010 SURFACE MILL ( 4%)
(5) OCCUPATIONS 604 MECHANIC ( 14%)					

DAP, INC. DURATITE NON-FLAMMABLE CONTACT CEMENT	1	1	<1	1 GALS.	(6) LOCATIONS 009 SURFACE MISC ( 2%)
(5) OCCUPATIONS 602 ELECTRICIAN ( 25%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MITEE DRIPLESS PIPE JOINT COMP OUND	1	1	<1	2 LBS.	009 SURFACE MISC ( 2% )
<hr/>					
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25% )					

MITEE THREAD CUTTING OIL	2	7	3	10 GALS.	(6) LOCATIONS
(5) OCCUPATIONS					
619 WELDER ( 50% )					

DAYTON ELECTRIC MANUFACTURING CO.					
DAYTON DEMIKOTE PENETRATING OI L 2X725-A SPRAY (AEROSOL)	5	5	2	10 LBS.	(6) LOCATIONS
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25% )					
604 MECHANIC ( 14% )					

DAYTON ELECTRIC MFG. CO.					
DAYTON VITRIFIED GRINDING WHEEL L 5X595 6"X3/4"X1" 36 COARSE	10	10	4	8 LBS.	(6) LOCATIONS
(5) OCCUPATIONS					
604 MECHANIC ( 34% )					
009 SURFACE MISC ( 16% )					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
DAYTON 9" GRINDING WHEEL METAL GRINDING ALUMINUM OXIDE 5X587	10	10	4	4 LBS.	009 SURFACE MISC ( 16%)
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 34%)					

DEKOVEN MANUFACTURING CO.

NAPA LIFTING EQUIPMENT HYDRAUL IC JACK OIL 91-294	2	2	1	1 GALS.	(6) LOCATIONS
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					

DEVCON CORP.

SILITE SILICONE RTV SEALANT (C LEAR)	4	4	2	4 GALS.	(6) LOCATIONS
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
7	24	10	17 LBS.

UGLY DUCK ANTISEPTIC HEAVY DUT  
Y HAND CLEANER WITH FINE PUMICE

(5)  
OCCUPATIONS

179 BALL, ROD, PEBBLE MILL OPTR (100%)	376 TRUCK DRIVER ( 8%)		
619 WELDER ( 50%)	649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)		

(6)  
LOCATIONS

004 SURFACE MINE ( 6%)
010 SURFACE MILL ( 7%)

DOUBLE EAGLE LUBRICANTS, INC.

CREST ANTIFREEZE AND COOLANT

(5)

OCCUPATIONS

368 BULLDOZER OPTR ( 25%)	602 ELECTRICIAN ( 25%)		
604 MECHANIC ( 14%)	682 SCRAPER-LOADER OPTR (100%)		55 GALS.

(6)  
LOCATIONS

005 SURFACE SHOP ( 25%)
004 SURFACE MINE ( 12%)

DOW CORNING CORPORATION

DOW CORNING 347 EMUL LOT AA062 4 11 5 6,274 LBS.  
003

(5)

OCCUPATIONS

619 WELDER ( 25%)	649 ADMN, SUPERVISORY, MGT PERSNL ( 18%)
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(6)  
LOCATIONS

(CONTINUED NEXT PAGE)

TABLE 4, PAGE 22 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
DOW CORNING 347 EMUL LOT AA062 003	4	11	5	6,274 LBS.

(CONTINUED)

(5) OCCUPATIONS	(6) LOCATIONS
879 BAGGING OR PACKING WRKR ( 3%)	010 SURFACE MILL ( 4%)

DOW CORNING 999 SILICONE BUILD ING & GLAZING SEALANT	11	11	5	4 GALS.
---	----	----	---	---------

(5) OCCUPATIONS	(6) LOCATIONS
602 ELECTRICIAN ( 25%)	005 SURFACE SHOP ( 5%) 009 SURFACE MISC ( 16%)

100% SILICONE RUBBER GENERAL P URPOSE SEALANT WHITE	2	2	1	1 GALS.
--	---	---	---	---------

(5) OCCUPATIONS	(6) LOCATIONS
604 MECHANIC ( 7%)	005 SURFACE SHOP ( 10%)

DRIVE TRAIN INDUSTRIES, INC.

HDA 1EF	5	5	2	56 LBS.
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(5) OCCUPATIONS	(6) LOCATIONS
376 TRUCK DRIVER ( 23%)	009 SURFACE MISC ( 5%) 005 SURFACE SHOP ( 10%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
RV HDA 1EF	5	5	2	56 LBS.	009 SURFACE MISC ( 5%) 005 SURFACE SHOP ( 10%)
<b>(5)</b>					
OCCUPATIONS					
376 TRUCK DRIVER ( 23%)	604 MECHANIC ( 7%)				
<b>(5)</b>					
4515 ED EF ANC HDA 62	5	5	2	56 LBS.	009 SURFACE MISC ( 5%) 005 SURFACE SHOP ( 10%)
<b>(5)</b>					
OCCUPATIONS					
376 TRUCK DRIVER ( 23%)	604 MECHANIC ( 7%)				
<b>(5)</b>					
4515 ED EF CAM HDA 62	5	5	2	56 LBS.	009 SURFACE MISC ( 5%) 005 SURFACE SHOP ( 10%)
<b>(5)</b>					
OCCUPATIONS					
376 TRUCK DRIVER ( 23%)	604 MECHANIC ( 7%)				
<b>(5)</b>					
EIS DIVISION-PARKER HANNIFIN CORP.					
EIS DISC & DRUM BRAKE FLUID SU PER 703 STOCK NO. F73 DOT 3	2	2	1	1 GALS.	009 SURFACE MISC ( 5%) 005 SURFACE SHOP ( 10%)
<b>(5)</b>					
OCCUPATIONS					
604 MECHANIC ( 7%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
EUTECTIC + CASTOLIN INSTITUTE / EUTECTIC CORPORATION					
CP H-006 TUBULAR CONTINUOUS EL ECTRODE	7	7	3	54 LBS.	009 SURFACE MISC ( 11%)
<b>(5) OCCUPATIONS</b>					
604 MECHANIC ( 24%)					

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
CP H-007 TUBULAR CONTINUOUS EL ECTRODE	7	7	3	52 LBS.	009 SURFACE MISC ( 11%)
<b>(5) OCCUPATIONS</b>					
604 MECHANIC ( 24%)					

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
EXCEL MINERAL COMPANY INC.					
QUICK SORB OIL AND WATER ABSORBENT 01017	2	2	1	100 LBS.	005 SURFACE SHOP ( 10%)
<b>(5) OCCUPATIONS</b>					
604 MECHANIC ( 7%)					

TABLE 4, PAGE 25 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1)	(2)	(3)	(4)
	#WORKERS POTENTIALLY EXPOSED (OBSERVED)	#WORKERS POTENTIALLY EXPOSED (PREDICTED)	%WORKERS POTENTIALLY EXPOSED (PREDICTED)	PREDICTED ANNUAL USAGE
FINA LUBRICANTS/AMERICAN PETROFINA INC.				
2019 FINA MULTIPURPOSE GEAR LU BE, SAE90	12	12	5	912 LBS.
<b>(5)</b>				
OCCUPATIONS				
368 BULLDOZER OPTR ( 25%)		488 DRY SCREENING PLANT OPTR ( 33%)		
602 ELECTRICIAN ( 25%)		604 MECHANIC ( 14%)		
616 LABORER; BULLGANG ( 50%)		682 SCRAPER-LOADER OPTR (100%)		
<b>(6)</b>				
LOCATIONS				
				005 SURFACE SHOP ( 25%)
				010 SURFACE MILL ( 5%)
				004 SURFACE MINE ( 12%)

FISKE BROTHERS REFINING CO.

FISKE'S DARL CUTTING OIL NO. 2 1 1 <1 1 GALS.

(5)

OCCUPATIONS

602 ELECTRICIAN ( 25%)

(6)

LOCATIONS

005 SURFACE SHOP ( 5%)

FISKE'S NO. 35 SOLUBLE OIL 1 1 <1 1 GALS.

(5)

OCCUPATIONS

602 ELECTRICIAN ( 25%)

(6)

LOCATIONS

005 SURFACE SHOP ( 5%)

TABLE 4, PAGE 26 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
GENERAL ELECTRIC	1	1	<1	7 LBS.	009 SURFACE MISC ( 2%)
GE LONG LIFE GREASE					
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%)					

GENERAL ELECTRIC CO.

GE SILICONE II THE HOME PRO LI NEWINDOW & DOOR SEALANT GE 5000	2	7	3	86 GALS.	(6) LOCATIONS
(5) OCCUPATIONS					
619 WELDER ( 50%)					
010 SURFACE MILL ( 2%)					

GENERAL ELECTRIC COMPANY / SILICONE PRODUCTS DIVISION / RTV PRODUCTS DEPARTMENT

GE SILICONE RUBBER CAUK CLEAR	1	1	<1	24 GALS.	(6) LOCATIONS
(5) OCCUPATIONS					
488 DRY SCREENING PLANT OPTR ( 17%)					
010 SURFACE MILL ( 1%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

(1)	(2)	(3)	(4)
#WORKERS POTENTIALLY EXPOSED (OBSERVED)	#WORKERS POTENTIALLY EXPOSED (PREDICTED)	%WORKERS POTENTIALLY EXPOSED (PREDICTED)	PREDICTED ANNUAL USAGE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS  
GETTY REFG. MKTG. CO.

SKELVIS 30 INH ISO-VIS-100 AGM 1 1 <1 55 GALS.

(5)  
OCCUPATIONS

618 GREASER; OILER (100%)

(6)  
LOCATIONS

010 SURFACE MILL ( 1%)

SKELVIS 30 MP ISO S-10 AGMA-3E 1 1 <1 55 GALS.

(5)  
OCCUPATIONS

618 GREASER; OILER (100%)

(6)  
LOCATIONS

010 SURFACE MILL ( 1%)

GO-JO INDUSTRIES INC

GO-JO THE EXTRA HEAVY DUTY HAN 6 6 2 9 LBS.  
D CLEANER CREME TYPE ORIGINAL FORMULA STOCK NO. 11

(5)  
OCCUPATIONS

389 FORKLIFT OPTR ( 67%)

604 MECHANIC ( 14%)

(6)  
LOCATIONS

010 SURFACE MILL ( 6%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
GOLD EAGLE CO.					
AIR BRAKE ANTIFREEZE AND RUST INHIBITOR STOCK NO. AB6	4	4	2	24 GALS.	
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					010 SURFACE MILL ( 4%)
GULF OIL CORPORATION					
GULFPRIDE PREMIUM 10W/40	4	11	5	856 GALS.	
(5) OCCUPATIONS					
376 TRUCK DRIVER ( 8%) 879 BAGGING OR PACKING WRKR ( 3%)					010 SURFACE MILL ( 4%)
H.B. EGAN MANUFACTURING COMPANY					
CAMEL NON-FLAMMABLE LIQUID BUF FER 12-092	2	2	1	1 GALS.	
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					005 SURFACE SHOP ( 10%)

TABLE 4, PAGE 29 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
CAMEL NON-FLAMMABLE UNIVERSAL CEMENT 12-086	2	2	1	1 GALS.	005 SURFACE SHOP ( 10% )
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 7% )					
-----					
CAMEL NON-FLAMMABLE UNIVERSAL CEMENT 12-089	2	2	1	1 GALS.	
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 7% )					
-----					
HEET AUTOMOTIVE DIVISION / DEMERT & DOUGHERTY, INC.					
TRUCK DIESEL FUEL ANTI-GEL	5	5	2	5 GALS.	
-----					
(5) OCCUPATIONS					
376 TRUCK DRIVER ( 23% )			604 MECHANIC ( 7% )		
-----					
HENDERSON TIRE CHANGER DIVISION					
HENDERSON TIRE CHANGER LUBRICATING FLUID	2	2	1	1 GALS.	
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 7% )					
-----					
(6) LOCATIONS					
009 SURFACE MISC ( 5% )					
005 SURFACE SHOP ( 10% )					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
HOBART BROTHERS CO. 335A COVERED ELECTRODES E6011	4	4	2	200 LBS.	010 SURFACE MILL ( 4%)
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					
718 COVERED ELECTRODES E7018	4	4	2	50 LBS.	010 SURFACE MILL ( 4%)
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					
HOBART BROTHERS COMPANY					
HOBART WELDING ELECTRODES E601	9	9	4	40 LBS.	005 SURFACE SHOP ( 10%) 009 SURFACE MISC ( 11%)
(5) OCCUPATIONS					
604 MECHANIC ( 31%)					
HOBART WELDING ELECTRODES TYPE 718 E7018	10	10	4	550 LBS.	005 SURFACE SHOP ( 10%) 009 SURFACE MISC ( 11%) 010 SURFACE MILL ( 1%)
(5) OCCUPATIONS					
604 MECHANIC ( 31%)					
618 GREASER; OILER (100%)					

TABLE 4, PAGE 31 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1)	(2)	(3)	(4)
	#WORKERS POTENTIALLY EXPOSED (OBSERVED)	#WORKERS POTENTIALLY EXPOSED (PREDICTED)	%WORKERS POTENTIALLY EXPOSED (PREDICTED)	PREDICTED ANNUAL USAGE
HOBART 335A COVERED ELECTRODES AWS E-6011	3	3	1	40 LBS.
<b>(5)</b>				
OCCUPATIONS	618 GREASER; OILER (100%)			
604 MECHANIC ( 7%)				
<b>(6)</b>				
	LOCATIONS			
	005 SURFACE SHOP ( 10%)			
	010 SURFACE MILL ( 1%)			

14A COVERED ELECTRODES E7014 S 10 10 4 270 LBS.  
TOCK NO. S114251-31

(5)

OCCUPATIONS

604 MECHANIC ( 31%)

618 GREASER; OILER (100%)

(6)

LOCATIONS

005 SURFACE SHOP ( 10%)  
009 SURFACE MISC ( 11%)  
010 SURFACE MILL ( 1%)

HOBART BROTHERS COMPANY,

E6011 COVERED ELECTRODES, 335A 11 11 5 300 LBS.

(5)

OCCUPATIONS

602 ELECTRICIAN ( 25%)

604 MECHANIC ( 34%)

(6)

LOCATIONS

005 SURFACE SHOP ( 5%)  
009 SURFACE MISC ( 16%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
7018	11	11	5	700 LBS.

(5)

OCCUPATIONS

602 ELECTRICIAN ( 25%)

604 MECHANIC ( 34%)

(6)

LOCATIONS

005 SURFACE SHOP ( 5%)  
009 SURFACE MISC ( 16%)

HUNTINGTON ALLOYS / AN INCO COMPANY / HUNTINGTON ALLOYS, INC.

NI-ROD WELDING ELECTRODE	4	4	2	50 LBS.
--------------------------	---	---	---	---------

(5)

OCCUPATIONS

604 MECHANIC ( 14%)

(6)

LOCATIONS

010 SURFACE MILL ( 4%)

IDEAL INDUSTRIES, INC.

YELLOW 77 WIRE PULLING LUBRICA NT CAT. NO. 31-351	1	1	<1	1 GALS.
---	---	---	----	---------

(5)

OCCUPATIONS

602 ELECTRICIAN ( 25%)

(6)

LOCATIONS

009 SURFACE MISC ( 2%)

INDEPENDENT INK, INC.

46-3 BLACK MARKING INK	5	5	2	3 GALS.
------------------------	---	---	---	---------

(5)

OCCUPATIONS

389 FORKLIFT OPTR ( 67%)

616 LABORER; BULLGANG ( 50%)

(6)

LOCATIONS

010 SURFACE MILL ( 2%)  
009 SURFACE MISC ( 5%)

TABLE 4, PAGE 33 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
INDUSTRIAL GAS PRODUCTS	10	10	4	200 LBS.	009 SURFACE MISC ( 16%)
7014					
(5) OCCUPATIONS					
604 MECHANIC ( 34%)					

INDUSTRIAL GAS PRODUCTS, INC.

CARBON DIOXIDE	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
CARBON DIOXIDE	9	9	4	200 GALS.	005 SURFACE SHOP ( 10%) 009 SURFACE MISC ( 11%)
(5) OCCUPATIONS					
604 MECHANIC ( 31%)					

STARGON UN 1956

OCCUPATIONS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
OCCUPATIONS	2	2	1	1,871 GALS.	005 SURFACE SHOP ( 10%) 009 SURFACE MISC ( 11%)
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					

UNFLUXED BRONZE ROD

OCCUPATIONS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
OCCUPATIONS	1	1	<1	5 LBS.	010 SURFACE MILL ( 1%)
(5) OCCUPATIONS					
618 GREASER; OILER (100%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MANUFACTURE'S NAME AND TRADENAME PRODUCTS					
INTERNATIONAL HARVESTER COMPANY					
INTERNATIONAL STARTING FLUID F OR DIESEL AND GASOLINE ENGINES 997 158 R1 (AEROSOL)	10	10	4	45 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 34%)					009 SURFACE MISC ( 16%)

JETCO INCORPORATED

	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
JET-START FAST FLASH FUEL	2	2	1	11 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					004 SURFACE MINE ( 12%)

K & W PRODUCTS, INC.

	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
K & W SPRAY COPPER COAT GASKET COMPOUND (AEROSOL)	7	7	3	1 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 24%)					005 SURFACE SHOP ( 35%)

TABLE 4, PAGE 35 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
K&W PRODUCTS					
KNOCK'ER LOOSE PENETRATING LUBRICANT STOCK #1712 (AEROSOL)	11	11	5	30 LBS.	005 SURFACE SHOP ( 5%) 009 SURFACE MISC ( 16%)
OCCUPATIONS					
602 ELECTRICIAN ( 25%)			604 MECHANIC ( 34%)		

KAISER REFRACTORIES

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MAX-BOND AIR SETTING SUPER DUTY PLASTIC REFRACTORY	9	9	4	9,900 LBS.	010 SURFACE MILL ( 9%)
OCCUPATIONS					
488 DRY SCREENING PLANT OPTR ( 17%) 618 GREASER; OILER (100%)			604 MECHANIC ( 24%)		

KEYSTONE DENNWALT 21ST AND LIPPINCOTT STS.

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
KEYSTONE 81 LIGHT LUBRICANT	3	9	4	60 LBS.	010 SURFACE MILL ( 3%)
OCCUPATIONS					
649 ADMN, SUPERVISORY, MGT PERSNL ( 18%) 879 BAGGING OR PACKING WRKR ( 3%)					

TABLE 4, PAGE 36 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
LAKE CHEMICAL CO./MARKAL CO.					
LA-CO SLIC-TITE PASTE WITH TEF LON	1	3	1	3 GALS.	
<b>(5)</b>					
OCCUPATIONS	-----				
619 WELDER ( 25%)	-----				
					010 SURFACE MILL ( 1%)

LARRY SMITH DISTRIBUTOR

#1 DIESEL FUEL	18	18	7	1,540 GALS.	
<b>(5)</b>					
OCCUPATIONS	-----				
079 CRUSHER OPTR ( 50%)	376 TRUCK DRIVER ( 15%)				
604 MECHANIC ( 34%)	728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)				
					010 SURFACE MILL ( 3%) 009 SURFACE MISC ( 16%) 004 SURFACE MINE ( 29%)
<b>(6)</b>					
OCCUPATIONS	-----				
#2 DIESEL FUEL	18	18	7	30,900 GALS.	
<b>(5)</b>					
OCCUPATIONS	-----				
079 CRUSHER OPTR ( 50%)	376 TRUCK DRIVER ( 15%)				
604 MECHANIC ( 34%)	728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)				
					010 SURFACE MILL ( 3%) 009 SURFACE MISC ( 16%) 004 SURFACE MINE ( 29%)

TABLE 4, PAGE 37 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
LEADED GASOLINE	3	3	1	6,000 GALS.
<hr/>				
OCCUPATIONS	(6) LOCATIONS			
613 CLEANUP MAN ( 75%)	009 SURFACE MISC ( 5%)			

LEHN AND FINK PRODUCTS DIVISION OF STERLING DRUG INC.

LYSOL BRAND DISINFECTANT BASIN /TUB/TILE CLEANER (AEROSOL)	2	10	4	67 LBS.
<hr/>				
OCCUPATIONS	(6) LOCATIONS			
879 BAGGING OR PACKING WRKR ( 7%)	010 SURFACE MILL ( 2%)			

LINCOLN ELECTRIC CO.

JETWELD SP. #6011	4	4	2	600 LBS.
<hr/>				
OCCUPATIONS	(6) LOCATIONS			
604 MECHANIC ( 14%)	005 SURFACE SHOP ( 20%)			

JETWELD SP. #7018

OCCUPATIONS	4	4	2	600 LBS.
<hr/>				
604 MECHANIC ( 14%)	(6) LOCATIONS			
	005 SURFACE SHOP ( 20%)			

TABLE 4, PAGE 38 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
LINCOLN ELECTRIC COMPANY					
LINCOLN JETWELD LH-70 7018	2	6	2	43 LBS.	
(5) OCCUPATIONS					
619 WELDER ( 25%)		649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)			010 SURFACE MILL ( 2%)
LINCOLN NO. 37 6013	2	6	2	43 LBS.	
(5) OCCUPATIONS					
619 WELDER ( 25%)		649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)			010 SURFACE MILL ( 2%)
LINCOLN NO. 5P 6010	2	6	2	285 LBS.	
(5) OCCUPATIONS					
619 WELDER ( 25%)		649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)			010 SURFACE MILL ( 2%)
LINCOLN NO. 7 6012	2	6	2	43 LBS.	
(5) OCCUPATIONS					
619 WELDER ( 25%)		649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)			010 SURFACE MILL ( 2%)

TABLE 4, PAGE 39 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
LOCTITE CORPORATION / AUTOMOTIVE AND CONSUMER GROUP					
PERMATEX SILICONE FORM-A-GASKE T RTV BLUE GASKET MAKER PART NO. 6B ITEM NO. 80627	10	4		7 LBS.	
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%)			604 MECHANIC ( 31%)		009 SURFACE MISC ( 2%) 005 SURFACE SHOP ( 45%)
PERMATEX STARTING FLUID PART N O. 107 DA ITEM NO. 80066 (AEROSOL)					
	11	5		124 LBS.	
(5) OCCUPATIONS					
368 BULLDOZER OPTR ( 50%)			376 TRUCK DRIVER ( 38%)		010 SURFACE MILL ( 2%) 009 SURFACE MISC ( 8%) 004 SURFACE MINE ( 12%) 005 SURFACE SHOP ( 10%)
604 MECHANIC ( 14%)					
LUBRICATION ENGINEERS INC.					
NO. 1250 ALMASOL HIGH TEMPERAT URE LUBRICANT	4	2		240 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					010 SURFACE MILL ( 4%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(5) OCCUPATIONS	(6) LOCATIONS
LUBRICATION ENGINEERS, INC. ALMAPLEX 1275 INDUSTRIAL LUBRI CANT	4	21	8	56 LBS.		
-----						
376 TRUCK DRIVER ( 8%)						
879 BAGGING OR PACKING WRKR ( 7%)						010 SURFACE MILL ( 4%)
-----						

LUBRIPLATE DIVISION / FISKE BROTHERS REFINING COMPANY

LUBRIPLATE NO. 1200-2 MULTI-PU RPOSE GREASE PART NO. 10298	2	2	1	2 LBS.		
-----						
604 MECHANIC ( 7%)						005 SURFACE SHOP ( 10%)
-----						

LUBRIPLATE WHEEL BEARING GREAS E PART NO. 22001	2	2	1	1 LBS.		
-----						
604 MECHANIC ( 7%)						005 SURFACE SHOP ( 10%)
-----						

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(5) OCCUPATIONS	(6) LOCATIONS
MAC'S / DIVISION OF ASHLAND OIL, INC.	5	5	2	2 GALS.		
7100 NAPA MAC'S THERMO-AID						
376 TRUCK DRIVER ( 23%)			604 MECHANIC ( 7%)			009 SURFACE MISC ( 5%) 005 SURFACE SHOP ( 10%)

7216 NAPA MAC'S PREMIUM STARTING FLUID (AEROSOL)	5	5	2	17 LBS.		
376 TRUCK DRIVER ( 23%)			604 MECHANIC ( 7%)			009 SURFACE MISC ( 5%) 005 SURFACE SHOP ( 10%)

9600 NAPA MAC'S DIESEL FUEL CONDITIONER	5	5	2	6 GALS.		
376 TRUCK DRIVER ( 23%)			604 MECHANIC ( 7%)			009 SURFACE MISC ( 5%) 005 SURFACE SHOP ( 10%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MAC'S/DIVISION OF ASHLAND OIL CO.					
NAPA STARTING FLUID, #7212, AE ROSOL	2	2	1	17 LBS.	
<b>(5) OCCUPATIONS</b>					
368 BULLDOZER OPTR ( 25%)				682 SCRAPER-LOADER OPTR (100%)	004 SURFACE MINE ( 12%)

MACKLANBURG-DUNCAN CO.

WHITE SILICONE RUBBER SEALANT	1	5	2	5 GALS.	
<b>(5) OCCUPATIONS</b>					
376 TRUCK DRIVER ( 8%)					010 SURFACE MILL ( 1%)

MAMECO INTERNATIONAL

ONE-PART POLYURETHANE VULKEM S EALANT	1	5	2	5 GALS.	
<b>(5) OCCUPATIONS</b>					
376 TRUCK DRIVER ( 8%)					010 SURFACE MILL ( 1%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MARSH STENCIL MACHINE CO.					
MARSH K-1 BLACK STENCIL INK	2	2	1	1 GALS.	
<b>OCCUPATIONS</b>					
669 BIN PULLER; TRUCK LOADER ( 20%)			879 BAGGING OR PACKING WRKR ( 3%)		009 SURFACE MISC ( 3%)

MARVEL OIL COMPANY, INC.

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MARVEL MYSTERY OIL TOP CYLINDER LUBRICATION	2	2	1	2 GALS.	
<b>OCCUPATIONS</b>					
604 MECHANIC ( 7%)					005 SURFACE SHOP ( 10%)

MARVEL OIL COMPANY, INC.

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MARVEL AIR-TOOL OIL NO. 085	2	7	3	7 GALS.	
<b>OCCUPATIONS</b>					
619 WELDER ( 50%)					010 SURFACE MILL ( 2%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MASTER PRODUCTS CO. DYNALIFE WINDSHIELD WASHER ANT I-FREEZE AND CLEANER	1	1	<1	5 GALS.	004 SURFACE MINE ( 6%)
OCCUPATIONS					
375 ROAD GRADER OPTR (100%)					

MESA OIL

USED MOTOR OIL	1	1	<1	216,000 GALS.	(6) LOCATIONS
OCCUPATIONS					
602 ELECTRICIAN ( 25%)					

MILT ADAMS

RECLAIMED OIL	18	18	7	711,000 GALS.	(6) LOCATIONS
OCCUPATIONS					
379 DRYER OPTR; KILN OPTR ( 33%)					
604 MECHANIC ( 34%)					
614 SAMPLER; DUST SAMPLER (100%)					
602 ELECTRICIAN ( 25%)					
613 CLEANUP MAN ( 25%)					
649 ADMN, SUPERVISORY, MGT PERSNL ( 18%)					
009 SURFACE MISC ( 17%)					
010 SURFACE MILL ( 7%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1)	(2)	(3)	(4)
	#WORKERS POTENTIALLY EXPOSED (OBSERVED)	#WORKERS POTENTIALLY EXPOSED (PREDICTED)	%WORKERS POTENTIALLY EXPOSED (PREDICTED)	PREDICTED ANNUAL USAGE
MINNESOTA MINING & MFG. CO. / 3M CENTER				
SCOTCH BRAND 1607 NON-FLAMMABLE CONTACT CLEANER (AEROSOL)	1	1	<1	2 LBS.
<b>(5)</b>				
OCCUPATIONS	-----			
602 ELECTRICIAN ( 25%)	-----			
<b>(6)</b>				
LOCATIONS	-----			
009 SURFACE MISC ( 2%)	-----			

MOBIL OIL CORPORATION

MOBIL DTE #26	3	15	6	5 GALS.
<b>(5)</b>				
OCCUPATIONS	-----			
669 BIN PULLER; TRUCK LOADER ( 20%)	-----			
879 BAGGING OR PACKING WRKR ( 7%)	-----			
<b>(6)</b>				
LOCATIONS	-----			
010 SURFACE MILL ( 3%)	-----			

MOBIL 423 HYDRAULIC OIL

MOBIL 423 HYDRAULIC OIL	1	5	2	26 GALS.
<b>(5)</b>				
OCCUPATIONS	-----			
376 TRUCK DRIVER ( 8%)	-----			
<b>(6)</b>				
LOCATIONS	-----			
010 SURFACE MILL ( 1%)	-----			

MOBILAND 230 FARM ENGINE OIL SAE30

MOBILAND 230 FARM ENGINE OIL SAE30	3	15	6	385 GALS.
<b>(5)</b>				
OCCUPATIONS	-----			
376 TRUCK DRIVER ( 8%)	-----			
879 BAGGING OR PACKING WRKR ( 7%)	-----			
<b>(6)</b>				
LOCATIONS	-----			
009 SURFACE MISC ( 2%)	-----			
010 SURFACE MILL ( 3%)	-----			

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MORTELL COMPANY					
MORTITE ALUMINUM ROOF COATING	1	5	2	10 GALS.	
<hr/>					
(5) OCCUPATIONS					
376 TRUCK DRIVER ( 8%)					010 SURFACE MILL ( 1%)

MOTOR PARTS

MECHANIC'S WIRE	1	1	<1	2 LBS.	
<hr/>					
(5) OCCUPATIONS					(6) LOCATIONS
604 MECHANIC ( 3%)					005 SURFACE SHOP ( 5%)

MOTOR PARTS CO.

MRKEU C 4 75 312504 CAM CATERPILLAR	3	3	1	24 LBS.	
<hr/>					
(5) OCCUPATIONS					(6) LOCATIONS
728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)					004 SURFACE MINE ( 18%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
MRKEU 312500 C3 75 ANC CATERPI LLAR	3	3	1	24 LBS.

(5)  
OCCUPATIONS

728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)

(6)  
LOCATIONS

004 SURFACE MINE ( 18%)

NAPA UNITED / UNITED PARTS DIVISION / ECHLIN, INC.

NAPA UNITED AIR BRAKE SYSTEM A NTI-FREEZE AND RUSTGUARD PART NO. 65000	2	2	1	6 GALS.
---	---	---	---	---------

(5)

OCCUPATIONS

604 MECHANIC ( 7%)

(6)

LOCATIONS

005 SURFACE SHOP ( 10%)

NATIONAL CHEMSEARCH / A DIVISION OF NCH CORPORATION

AEROLEX DRY MOLY LUBRICANT (AE ROSOL)	1	1	<1	1 LBS.
--	---	---	----	--------

(5)

OCCUPATIONS

375 ROAD GRADER OPTR (100%)

(6)

LOCATIONS

004 SURFACE MINE ( 6%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
B-LUBE BELT DRESSING (AEROSOL)	11	11	5	24 LBS.	
-----					
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%)	604 MECHANIC ( 34%)				
-----					
LEXITE (AEROSOL)	1	1	<1	12 LBS.	
-----					
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%)					
-----					
LUBREASE CHAIN AND CABLE LUBRI CANT (AEROSOL)	10	10	4	30 LBS.	
-----					
(5) OCCUPATIONS					
604 MECHANIC ( 34%)					
-----					
TUF-SCRUB	9	9	4	36 LBS.	
-----					
(5) OCCUPATIONS					
079 CRUSHER OPTR ( 50%)	376 TRUCK DRIVER ( 15%)				
-----					

(CONTINUED NEXT PAGE)

TABLE 4, PAGE 49 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
9	9	4	36 LBS.

TUF-SCRUB

(CONTINUED)

(5)  
OCCUPATIONS

602 ELECTRICIAN ( 25%)

728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)

(6)  
LOCATIONS

009 SURFACE MISC ( 2%)  
004 SURFACE MINE ( 29%)

NATIONAL CHEMSEARCH/A DIVISION OF NCH CORPORATION

DIESEL GUARD 18 18 7 2 GALS.

(5)  
OCCUPATIONS

079 CRUSHER OPTR ( 50%)  
604 MECHANIC ( 34%)

376 TRUCK DRIVER ( 15%)  
728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)

(6)  
LOCATIONS

010 SURFACE MILL ( 3%)  
009 SURFACE MISC ( 16%)  
004 SURFACE MINE ( 29%)

NATIONAL STANDARD COMPANY

TYPE: N-S 101 CARBON STEEL WELD 8 8 3 45 LBS.  
ING WIRE CLASSIFICATION: ER70S-3 CODE NO. 1 GC HEAT N

(5)  
OCCUPATIONS

604 MECHANIC ( 28%)

(6)  
LOCATIONS

005 SURFACE SHOP ( 5%)  
009 SURFACE MISC ( 11%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
TYPE: N-S 115 CARBON STEEL WELDING WIRE	9	9	4	180 LBS.	005 SURFACE SHOP ( 10% ) 009 SURFACE MISC ( 11% )
<b>(5)</b>					
OCCUPATIONS	-----				
604 MECHANIC ( 31% )	-----				

NORTON COMPANY

NORTON GENERAL PURPOSE BENCH AND PEDESTAL ALUMDUM GRINDING WHEEL 10X1X1-1/4 4/84	2	2	1	20 LBS.	
<b>(5)</b>					
OCCUPATIONS	-----				
604 MECHANIC ( 7% )	-----				

NORZON III GRINDING DISC, MAX R.P.M. 6000 9 INCHES BY 1/4 INCH	4	4	2	15 LBS.	
<b>(5)</b>					
OCCUPATIONS	-----				
604 MECHANIC ( 14% )	-----				

9"X1/4" GENERAL PURPOSE DISC MAX. 6000 RPM 158930 9/83	9	9	4	2 LBS.	
<b>(5)</b>					
OCCUPATIONS	-----				
604 MECHANIC ( 31% )	-----				

(6)  
LOCATIONS  
005 SURFACE SHOP ( 10% )  
009 SURFACE MISC ( 11% )

(6)  
LOCATIONS  
010 SURFACE MILL ( 4% )

TABLE 4, PAGE 51 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
9"X1/4" GENERAL PURPOSE SAUCER MAX. 6000 RPM	9	9	4	2 LBS.	005 SURFACE SHOP ( 10%) 009 SURFACE MISC ( 11%)
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 31%)					

PACIFIC GRINDING WHEEL CO., INC.

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MAX 2070 RPM 12X2X1-1/2 VIT A6 O-M-VM	9	9	4	40 LBS.	005 SURFACE SHOP ( 10%) 009 SURFACE MISC ( 11%)
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 31%)					

MAX 2485 RPM 10X1X1-1/4 VIT A3  
6-P-VM

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MAX 2485 RPM 10X1X1-1/4 VIT A3 6-P-VM	2	2	1	10 LBS.	005 SURFACE SHOP ( 10%) 009 SURFACE MISC ( 11%)
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
RESIN FORCED KUP-KUT A24 G GENERAL PURPOSE 9" MAX. 6000 R.P.M.	2	2	1	2 LBS.	005 SURFACE SHOP ( 10% )
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 7% )					

PENNZOIL COMPANY

PENNZOIL MULTI-VIS 10W-30 MOTO R OIL	5	5	2	18 GALS.	(6) LOCATIONS
<hr/>					
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25% )					
604 MECHANIC ( 14% )					

PENNZOIL WITH 2-7 THE TOUGH-FI  
LMMOTOR OIL S.A.E. 30

(5) OCCUPATIONS	5	5	2	18 GALS.	(6) LOCATIONS
<hr/>					
602 ELECTRICIAN ( 25% )					
604 MECHANIC ( 14% )					

PERMATEX CO., INC.

PERMATEX ANTI-SEIZE COMPOUND	2	7	3	3 GALS.	(6) LOCATIONS
<hr/>					
(5) OCCUPATIONS					
619 WELDER ( 50% )					
010 SURFACE MILL ( 2% )					

TABLE 4, PAGE 53 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
PETROLANE					
PROPANE	12	12	5	48,600 GALS.	
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%)			604 MECHANIC ( 34%)		009 SURFACE MISC ( 16%)
619 WELDER ( 25%)					005 SURFACE SHOP ( 10%)
PLATTNERS WELDING SUPPLY					
ACETYLENE	2	10	4	92 LBS.	
(5) OCCUPATIONS					
376 TRUCK DRIVER ( 8%)			669 BIN PULLER; TRUCK LOADER ( 20%)		010 SURFACE MILL ( 2%)
PPG INDUSTRIES					
RED CENTER WHEEL EDP 41121 H.1 2325 DIA. 12 A/H:2 WIRE SIZE:020	9	9	4	24 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 31%)					005 SURFACE SHOP ( 10%)
					009 SURFACE MISC ( 11%)

(2)

TABLE 4, PAGE 54 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
PROCTER & GAMBLE					
COMET CLEANSER WITH CHLORINOL	1	3	1	14 LBS.	
-----					
OCCUPATIONS					
649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)					009 SURFACE MISC ( 2%)

PUBLIC SERVICE COMPANY OF COLORADO

NATURAL GAS	1	1	<1	89,766 GALS.	
-----					
OCCUPATIONS					(6) LOCATIONS
514 LABORATORY TECHNICIAN ( 25%)					009 SURFACE MISC ( 2%)

PYRO-CHEM, INC.

ABC PYRO-CHEM	1	1	<1	25 LBS.	
-----					
OCCUPATIONS					(6) LOCATIONS
602 ELECTRICIAN ( 25%)					009 SURFACE MISC ( 2%)

RADIATOR SPECILTY COMPANY

GUNK S-C SUPER CONCENTRATE DEG REASER PART NO. SC-2A	1	1	<1	1 GALS.	
-----					
OCCUPATIONS					(6) LOCATIONS
602 ELECTRICIAN ( 25%)					005 SURFACE SHOP ( 5%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
RAINBOW PAINT COMPANY, INC. CARETHANE FLOOR ENAMEL CRUISER GRAY #007	1	5	2	15 GALS.	010 SURFACE MILL ( 1%)
<hr/>					
(5) OCCUPATIONS 376 TRUCK DRIVER ( 8%)					

(5) OCCUPATIONS 376 TRUCK DRIVER ( 8%)	1	5	2	10 GALS.	010 SURFACE MILL ( 1%)
--	---	---	---	----------	------------------------

(5) OCCUPATIONS 376 TRUCK DRIVER ( 8%)	1	5	2	10 GALS.	010 SURFACE MILL ( 1%)
--	---	---	---	----------	------------------------

(5) OCCUPATIONS 376 TRUCK DRIVER ( 8%)	4	21	8	51 GALS.	010 SURFACE MILL ( 1%)
--	---	----	---	----------	------------------------

(CONTINUED NEXT PAGE)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
TANK COTE MAINTENANCE ALUMINUM (HEAT RESISTANT) A10 ALUMINUM #710	4	21	8	51 GALS.	
(CONTINUED)					
(5) OCCUPATIONS					
879 BAGGING OR PACKING WRKR ( 7%)					
RINCK-MCILWAINE, INC.					
RIMAC TOOLS WIRE BRUSH CAT. 1 B30	1	1	<1	1 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 3%)					
ROCKMOUNT RESEARCH & ALLOYS, INC.					
APOLLO-A	7	7	3	50 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 24%)					
(6) LOCATIONS					
009 SURFACE MISC ( 11%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
BRUTUS-A	7	7	3	20 LBS.

(5)  
OCCUPATIONS  
604 MECHANIC ( 24% )

(6)  
LOCATIONS  
009 SURFACE MISC ( 11% )

JUPITER A 8 8 3 10 LBS.

(5)  
OCCUPATIONS  
604 MECHANIC ( 24% )

(6)  
LOCATIONS  
009 SURFACE MISC ( 11% )  
010 SURFACE MILL ( 1% )

ZETA C HARD FACING 7 7 3 50 LBS.

(5)  
OCCUPATIONS  
604 MECHANIC ( 24% )

(6)  
LOCATIONS  
009 SURFACE MISC ( 11% )

RUST-OLEUM CORPORATION

RUST-OLEUM STOPS RUST! BRAND N 7 7 3 3 GALS.  
EW COLOR HORIZONS 1069 HEAVY DUTY RUST INHIBITIVE

(5)  
OCCUPATIONS  
604 MECHANIC ( 24% )

(6)  
LOCATIONS  
009 SURFACE MISC ( 11% )

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
RUST-OLEUM STOPS RUST! BRAND N EW COLOR HORIZONS 5792 WHITE	7	7	3	5 GALS.	009 SURFACE MISC ( 11%)
(5) OCCUPATIONS					
604 MECHANIC ( 24%)					
RUST-OLEUM STOPS RUST! BRAND N EW COLOR HORIZONS 769 DAMP-PROOF RED PRIMER	7	7	3	3 GALS.	009 SURFACE MISC ( 11%)
(5) OCCUPATIONS					
604 MECHANIC ( 24%)					
RUST-OLEUM STOPS RUST! BRAND N EW COLOR HORIZONS 944 FEDERAL SAFETY YELLOW	9	9	4	11 GALS.	005 SURFACE SHOP ( 10%) 009 SURFACE MISC ( 11%)
(5) OCCUPATIONS					
604 MECHANIC ( 31%)					
RUST-OLEUM STOPS RUST! BRAND 5 769 RED PRIMER RUST-0-CRYLIC SYSTEM	7	7	3	11 GALS.	009 SURFACE MISC ( 11%)
(5) OCCUPATIONS					
604 MECHANIC ( 24%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
RUST-OLEUM 8492 WHITE PRIMER	5	17	7	171 GALS.	
<hr/>					
(5) OCCUPATIONS					
079 CRUSHER OPTR ( 50%)		619 WELDER ( 50%)			009 SURFACE MISC ( 5%) 010 SURFACE MILL ( 2%)
<hr/>					
RUST-OLEUM 8494 HIGH GLOSS DAI RYWHITE	5	17	7	274 GALS.	
<hr/>					
(5) OCCUPATIONS					
079 CRUSHER OPTR ( 50%)		619 WELDER ( 50%)			009 SURFACE MISC ( 5%) 010 SURFACE MILL ( 2%)
<hr/>					
RUST-OLEUM 960 RUST-INHIBITIVE PRIMER	5	17	7	342 GALS.	
<hr/>					
(5) OCCUPATIONS					
079 CRUSHER OPTR ( 50%)		619 WELDER ( 50%)			009 SURFACE MISC ( 5%) 010 SURFACE MILL ( 2%)
<hr/>					
STOPS RUST! BRAND HEAT RESISTANT COATING SYSTEM 4233 GREEN	4	4	2	50 GALS.	
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					010 SURFACE MILL ( 4%)

TABLE 4, PAGE 60 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(5) WATERLESS HAND CLEANER 602	(6) LOCATIONS
SAFETY-KLEEN CORP.	3	3	1	5 LBS.		
-----						
OCCUPATIONS						
604 MECHANIC ( 7%)	879 BAGGING OR PACKING WRKR ( 3%)					

SANDVIK WELDING PRODUCTS

SANDVIK NIFECI, E NIFECI LOT N O. 11382 CONTROL NO. 11020	10	10	4	100 LBS.		
-----						
OCCUPATIONS						
604 MECHANIC ( 34%)	009 SURFACE MISC ( 16%)					

SCHOLLE CORPORATION

QUAL EZE-PAK ELECTROLYTE (ACID ) BATTERY FLUID	10	10	4	25 GALS.		
-----						
OCCUPATIONS						
604 MECHANIC ( 34%)	009 SURFACE MISC ( 16%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
SHARE CORP.					
CONTACT CLEANER FOR ELECTRONIC EQUIPMENT AND COIN MACHINES (AEROSOL)	5	2		36 LBS.	009 SURFACE MISC ( 2%) 010 SURFACE MILL ( 4%)
<b>OCCUPATIONS</b>					
602 ELECTRICIAN ( 25%)			604 MECHANIC ( 14%)		

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
NEW IMPROVED ELECTRICAL CONTACT CLEANER BA-327 (AEROSOL)	1	1	<1	36 LBS.	009 SURFACE MISC ( 2%)
<b>OCCUPATIONS</b>					
602 ELECTRICIAN ( 25%)					

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
PENETRATING OIL (AEROSOL)	4	4	2	39 LBS.	010 SURFACE MILL ( 4%)
<b>OCCUPATIONS</b>					
604 MECHANIC ( 14%)					

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
SHELL OIL CO.					
SHELLZONE ALL SEASON ANTI-FREEZE ANTI-BOIL PROTECTION ETHYLENE GLYCOL BASE	2	7	3	188 GALS.	010 SURFACE MILL ( 2%)
<b>OCCUPATIONS</b>					
619 WELDER ( 50%)					

TABLE 4, PAGE 62 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
SILCOO INCORPORATED					
WHITE LUBE ALL-PURPOSE WHITE LITHIUM GREASE PART NO. 14B	2	2	1	1 LBS.	
-----					
(5) OCCUPATIONS					(6) LOCATIONS
604 MECHANIC ( 7%)					005 SURFACE SHOP ( 10%)

SINCLAIR

#2 DIESEL FUEL	2	10	4	513 GALS.	
-----					
(5) OCCUPATIONS					(6) LOCATIONS
649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)					010 SURFACE MILL ( 2%)
669 BIN PULLER; TRUCK LOADER ( 20%)					

LEADED GASOLINE

376 TRUCK DRIVER ( 8%)	3	15	6	43,633 GALS.	
-----					
(5) OCCUPATIONS					(6) LOCATIONS
649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)					009 SURFACE MISC ( 2%)
669 BIN PULLER; TRUCK LOADER ( 20%)					010 SURFACE MILL ( 3%)

SOUTHWESTERN PETROLEUM CORP.

SWEPCO ALL SPECIFICATION DELUX E LONG DISTANCE ENGINE OIL 301	5	5	2	180 GALS.	
-----					
(5) OCCUPATIONS					(6) LOCATIONS
602 ELECTRICIAN ( 25%)					005 SURFACE SHOP ( 25%)
604 MECHANIC ( 14%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
SWPCO INDUSTRIAL OIL 702	5	5	2	24 GALS.	
<hr/>					
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%)			604 MECHANIC ( 14%)		005 SURFACE SHOP ( 25%)
<hr/>					
STA-LUBE, INC.					
STA-LUBE WHEEL BEARING GREASE #3133	5	5	2	5 LBS.	
<hr/>					
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%)			604 MECHANIC ( 14%)		005 SURFACE SHOP ( 25%)
<hr/>					
STOODY CO.					
STOODY 21	1	5	2	51 LBS.	
<hr/>					
(5) OCCUPATIONS					
669 BIN PULLER; TRUCK LOADER ( 20%)					010 SURFACE MILL ( 1%)
<hr/>					
STOODY COMPANY					
STOODY ALLOY WELDING WIRES TYP E 134	2	2	1	720 LBS.	
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					005 SURFACE SHOP ( 10%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
STOODY ALLOY WELDING WIRES TYP E:110	2	2	1	480 LBS.	005 SURFACE SHOP ( 10%)
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					
<hr/>					
STOODY ALLOY WELDING WIRES TYP E:965-G	7	7	3	98 LBS.	009 SURFACE MISC ( 11%)
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 24%)					
<hr/>					
STOODY HARD-FACING RODS AND ELECTRODES, COATED TUBE STOODITE FORAC-DC ELECTRIC A	12	12	5	700 LBS.	009 SURFACE MISC ( 16%) 005 SURFACE SHOP ( 10%)
<hr/>					
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%) 619 WELDER ( 25%)			604 MECHANIC ( 34%)		
<hr/>					
STOODY STAINLESS STEEL ELECTRODES TYPE 312-16 COATING AC-DC	4	4	2	30 LBS.	010 SURFACE MILL ( 4%)
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
STOODY 21 HARD FACING ELECTROD E	9	9	4	25 LBS.
<b>(5)</b>				
OCCUPATIONS				
604 MECHANIC ( 31%)				
<b>(6)</b>				
LOCATIONS				
005 SURFACE SHOP ( 10%)				
009 SURFACE MISC ( 11%)				

SUN WEST OIL

#1 DIESEL FUEL	19	19	8	15,700 GALS.
<b>(5)</b>				
OCCUPATIONS				
368 BULLDOZER OPTR ( 75%)			375 ROAD GRADER OPTR (100%)	
376 TRUCK DRIVER ( 62%)			604 MECHANIC ( 14%)	
734 ROTARY DRILL OPTR (100%)			782 FRONT-END LOADER OPTR (100%)	
879 BAGGING OR PACKING WRKR ( 3%)				
<b>(6)</b>				
LOCATIONS				
010 SURFACE MILL ( 2%)				
005 SURFACE SHOP ( 20%)				
004 SURFACE MINE ( 53%)				
009 SURFACE MISC ( 9%)				

#2 DIESEL FUEL

#2 DIESEL FUEL	33	33	14	265,000 GALS.
<b>(5)</b>				
OCCUPATIONS				
368 BULLDOZER OPTR ( 75%)			375 ROAD GRADER OPTR (100%)	
376 TRUCK DRIVER ( 62%)			379 DRYER OPTR; KILN OPTR ( 33%)	
604 MECHANIC ( 38%)			613 CLEANUP MAN ( 25%)	
614 SAMPLER; DUST SAMPLER (100%)			649 ADMN, SUPERVISORY, MGT PERSNL ( 18%)	
<b>(6)</b>				
LOCATIONS				
005 SURFACE SHOP ( 55%)				
010 SURFACE MILL ( 9%)				

(CONTINUED NEXT PAGE)

TABLE 4, PAGE 66 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
#2 DIESEL FUEL	33	33	14	265,000 GALS.

(CONTINUED)

OCCUPATIONS	(5)	(6) LOCATIONS
734 ROTARY DRILL OPTR (100%)	2	004 SURFACE MINE ( 53%)
879 BAGGING OR PACKING WRKR ( 3%)	3	009 SURFACE MISC ( 14%)

OCCUPATIONS	(5)	(6) LOCATIONS
LEADED GASOLINE	2	010 SURFACE MILL ( 1%)
613 CLEANUP MAN ( 25%)	1	004 SURFACE MINE ( 6%)

OCCUPATIONS	(5)	(6) LOCATIONS
SUPERIOR MAINTENANCE	2	010 SURFACE MILL ( 2%)
HEAVY DUTY DEGREASER AND MOTOR CLEANER	7	
619 WELDER ( 50%)	3	

TABLE 4, PAGE 67 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
SWIFT ADHESIVES & COATINGS / A DIVISION OF ESCHEM INC.					
SWIFT ADHESIVES & COATINGS 462	2	2	1	15 GALS.	
68 FOOD PACKAGING ADHESIVE					
OCCUPATIONS					
669 BIN PULLER; TRUCK LOADER ( 20%)			879 BAGGING OR PACKING WRKR ( 3%)		009 SURFACE MISC ( 3%)

TAMKO ASPHALT PRODUCTS, INC.

PLASTIC ROOF CEMENT NO. 881 WI NTER GRADE	1	5	2	26 GALS.	
OCCUPATIONS					
376 TRUCK DRIVER ( 8%)					010 SURFACE MILL ( 1%)

TEXACO INC.

MULTIGEAR LUBRICANT, EP S.A.E. 8W-90 API SERVICE 6L-4 AND 5	18	18	7	250 GALS.	
OCCUPATIONS					
079 CRUSHER OPTR ( 50%) 604 MECHANIC ( 34%)			376 TRUCK DRIVER ( 15%) 728 COMPLETE LOAD/HAUL/DUMP CYCLE ( 100%)		010 SURFACE MILL ( 3%) 009 SURFACE MISC ( 16%) 004 SURFACE MINE ( 29%)

TABLE 4, PAGE 68 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
RANDO OIL HD 32	1	1	<1	150 GALS.	009 SURFACE MISC ( 2%)
<b>(5) OCCUPATIONS</b>					
389 FORKLIFT OPTR ( 33%)					
RANDO OIL HD 68	6	6	2	110 GALS.	010 SURFACE MILL ( 6%)
<b>(5) OCCUPATIONS</b>					
389 FORKLIFT OPTR ( 67%)			604 MECHANIC ( 14%)		
TAURAK GREASE 250 PA1778, 10 160 W5C	10	10	4	300 LBS.	
<b>(5) OCCUPATIONS</b>					
604 MECHANIC ( 34%)					
TEXACO MARFAK MULTI PURPOSE 2	23	23	9	2,285 LBS.	
<b>(5) OCCUPATIONS</b>					
079 CRUSHER OPTR ( 50%)			376 TRUCK DRIVER ( 15%)		

(CONTINUED NEXT PAGE)

TABLE 4, PAGE 69 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
TEXACO MARFAK MULTI PURPOSE 2	23	23	9	2,285 LBS.

(CONTINUED)

(5) OCCUPATIONS	(6) LOCATIONS
602 ELECTRICIAN ( 25%)	005 SURFACE SHOP ( 5%)
728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)	009 SURFACE MISC ( 16%)
	010 SURFACE MILL ( 7%)
	004 SURFACE MINE ( 29%)

TEXAMATIC TYPE A TRANSMISSION FLUID	5	5	2	12 GALS.
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(5) OCCUPATIONS	(6) LOCATIONS
389 FORKLIFT OPTR ( 33%)	009 SURFACE MISC ( 2%)
	010 SURFACE MILL ( 4%)

THERMATEX EP-2	4	4	2	70 LBS.
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(5) OCCUPATIONS	(6) LOCATIONS
604 MECHANIC ( 14%)	010 SURFACE MILL ( 4%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
URSA SUPER PLUS MOTOR OIL SAE 10W	18	18	7	550 GALS.

(5)

OCCUPATIONS

079 CRUSHER OPTR ( 50%)  
604 MECHANIC ( 34%)

376 TRUCK DRIVER ( 15%)  
728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)

(6)  
LOCATIONS

010 SURFACE MILL ( 3%)  
009 SURFACE MISC ( 16%)  
004 SURFACE MINE ( 29%)

URSA SUPER PLUS MOTOR OIL SAE 30	26	26	11	850 GALS.
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(5)

OCCUPATIONS

079 CRUSHER OPTR ( 50%)  
389 FORKLIFT OPTR ( 33%)  
613 CLEANUP MAN ( 75%)

376 TRUCK DRIVER ( 15%)  
604 MECHANIC ( 48%)  
728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)

(6)  
LOCATIONS

010 SURFACE MILL ( 7%)  
009 SURFACE MISC ( 22%)  
004 SURFACE MINE ( 29%)

TEXACO, INC.

ANTI-FREEZE/COOLANT JC-04 8468 -4JK 143	7	7	3	4,128 LBS.
---	---	---	---	------------

(5)

OCCUPATIONS

368 BULLDOZER OPTR ( 75%)  
604 MECHANIC ( 7%)

376 TRUCK DRIVER ( 15%)

(6)  
LOCATIONS

010 SURFACE MILL ( 2%)  
009 SURFACE MISC ( 3%)  
004 SURFACE MINE ( 18%)

TABLE 4, PAGE 71 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MARFAK ALL PURPOSE OCCUPATIONS	2	2	1	1,475 LBS.	005 SURFACE SHOP ( 10%)
604 MECHANIC ( 7%)					
MARFAK HEAVY DUTY 3 OCCUPATIONS	4	4	2	70 LBS.	005 SURFACE SHOP ( 20%)
604 MECHANIC ( 14%)					
MARFAK 0 OCCUPATIONS	10	10	4	1,440 LBS.	009 SURFACE MISC ( 16%)
604 MECHANIC ( 34%)					
MEROPA 68 OCCUPATIONS	1	1	<1	110 GALS.	010 SURFACE MILL ( 1%)
618 GREASER; OILER (100%)					

TABLE 4, PAGE 72 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
MULTIGEAR LUBRICANT EP SAE 85W /90 FOR API SERVICE GL-4&5	1	1	<1	2,460 LBS.	010 SURFACE MILL ( 1%)

(5)

OCCUPATIONS

618 GREASER; OILER (100%)

PREMIUM RB GREASE

(5)

OCCUPATIONS

375 ROAD GRADER OPTR (100%)  
604 MECHANIC ( 7%)  
782 FRONT-END LOADER OPTR (100%)

376 TRUCK DRIVER ( 23%)  
618 GREASER; OILER (100%)

1,800 LBS.

RANDO OIL HD 150

(5)

OCCUPATIONS

618 GREASER; OILER (100%)

330 GALS.

RANDO OIL HD 32

(5)

OCCUPATIONS

618 GREASER; OILER (100%)

55 GALS.

(6)

LOCATIONS

010 SURFACE MILL ( 1%)

(6)

LOCATIONS

005 SURFACE SHOP ( 10%)  
010 SURFACE MILL ( 1%)  
004 SURFACE MINE ( 41%)

(6)

LOCATIONS

010 SURFACE MILL ( 1%)

TABLE 4, PAGE 73 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
ROCK DRILL LUBE 320	1	1	<1	55 GALS.	004 SURFACE MINE ( 6%)
-----					
OCCUPATIONS					
734 ROTARY DRILL OPTR (100%)					
-----					
TEXACO HAVOLINE SUPREME MOTOR OIL SAE 10W-30	2	2	1	330 GALS.	
-----					
OCCUPATIONS					
613 CLEANUP MAN ( 25%)			618 GREASER; OILER (100%)		010 SURFACE MILL ( 2%)
-----					
TEXACO MARFAK MULTI-PURPOSE 2	3	3	1	44 LBS.	
-----					
OCCUPATIONS					
604 MECHANIC ( 7%)			669 BIN PULLER; TRUCK LOADER ( 20%)		005 SURFACE SHOP ( 10%) 010 SURFACE MILL ( 1%) 009 SURFACE MISC ( 2%)
-----					
TEXACO TORQUE FLUID C-3 1821	11	11	5	990 GALS.	
-----					
OCCUPATIONS					
368 BULLDOZER OPTR ( 75%)			375 ROAD GRADER OPTR (100%)		010 SURFACE MILL ( 2%)

(CONTINUED NEXT PAGE)

TABLE 4, PAGE 74 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
TEXACO TORQUE FLUID C-3 1821	11	11	5	990 GALS.

(CONTINUED)

(5)  
OCCUPATIONS

376 TRUCK DRIVER ( 38%)

(6)  
LOCATIONS

009 SURFACE MISC ( 3%)  
004 SURFACE MINE ( 41%)  
005 SURFACE SHOP ( 10%)

TEXACO URSA SUPER PLUS MOTOR OIL SAE 30	12	12	5	1,320 GALS.
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(5)

OCCUPATIONS

368 BULLDOZER OPTR ( 75%)  
376 TRUCK DRIVER ( 38%)  
734 ROTARY DRILL OPTR (100%)

(6)  
LOCATIONS

010 SURFACE MILL ( 2%)  
009 SURFACE MISC ( 3%)  
005 SURFACE SHOP ( 10%)  
004 SURFACE MINE ( 47%)

TEXAMATIC FLUID 9226 DEXRON II AUTOMATIC TRANSMISSION FLUID	4	4	2	220 GALS.
---	---	---	---	-----------

(5)

OCCUPATIONS

604 MECHANIC ( 7%)  
618 GREASER; OILER (100%)

(6)  
LOCATIONS

004 SURFACE MINE ( 12%)  
005 SURFACE SHOP ( 10%)  
010 SURFACE MILL ( 2%)

613 CLEANUP MAN ( 25%)

TABLE 4, PAGE 75 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
TEXMATIC TYPE F AUTOMATIC TRANSMISSION FLUID	3	3	1	330 GALS.	004 SURFACE MINE ( 12%) 005 SURFACE SHOP ( 10%) 010 SURFACE MILL ( 1%)
<b>OCCUPATIONS</b>					
604 MECHANIC ( 7%)			618 GREASER; OILER (100%)		
<b>OCCUPATIONS</b>					
URSA SUPER PLUS MOTOR OIL SAE 10W	3	3	1	55 GALS.	005 SURFACE SHOP ( 10%) 009 SURFACE MISC ( 2%)
<b>OCCUPATIONS</b>					
604 MECHANIC ( 7%)			879 BAGGING OR PACKING WRKR ( 3%)		
<b>OCCUPATIONS</b>					
URSA SUPER PLUS MOTOR OIL SAE 15W-40	5	5	2	660 GALS.	005 SURFACE SHOP ( 5%) 009 SURFACE MISC ( 6%)
<b>OCCUPATIONS</b>					
376 TRUCK DRIVER ( 23%) 879 BAGGING OR PACKING WRKR ( 3%)			604 MECHANIC ( 3%)		

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE
2316 MULTIGEAR GEAR LUBRICANT EP SAE 80W-90 FOR API SERVICE GL-4 &5	2	2	1	120 LBS.

(5)

OCCUPATIONS

604 MECHANIC ( 7%)

(6)

LOCATIONS

005 SURFACE SHOP ( 10%)  
010 SURFACE MILL ( 1%)

THE ANSUL COMPANY

ANSUL FORAY MULTI-PURPOSE DRY CHEMICAL	4	4	2	300 LBS.
--	---	---	---	----------

(5)

OCCUPATIONS

604 MECHANIC ( 14%)

(6)

LOCATIONS

010 SURFACE MILL ( 4%)

THE CARBORUNDUM COMPANY / MERCHANDISING

CARBORUNDUM ALL PURPOSE GRINDING WHEEL NIAGARA BRAND CATALOG NO. HA42C 8"X1" COA	4	4	2	5 LBS.
--	---	---	---	--------

(5)

OCCUPATIONS

604 MECHANIC ( 14%)

(6)

LOCATIONS

010 SURFACE MILL ( 4%)

TABLE 4, PAGE 77 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
THE FOXBORO COMPANY GENERAL PURPOSE INK GREEN TYPE 1500 PART F100FF	2	2	1	1 GALS.	
<hr/>					
OCCUPATIONS					
379 DRYER OPTR; KILN OPTR ( 33%)					

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
GENERAL PURPOSE INK RED TYPE 1 500 PART F100FL	2	2	1	1 GALS.	
<hr/>					
OCCUPATIONS					
379 DRYER OPTR; KILN OPTR ( 33%)					

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
THE GATES RUBBER CO. GATES VULCOLINE ADHESIVE # 155 4-0002	2	7	3	41 GALS.	
<hr/>					
OCCUPATIONS					
619 WELDER ( 50%)					

TABLE 4, PAGE 78 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
THE LINCOLN ELECTRIC CO.					
FLEETWELD 180 E6011	2	7	3	513 LBS.	
(5) OCCUPATIONS					
619 WELDER ( 50%)					010 SURFACE MILL ( 2%)
FLEETWELD 35 E6011	4	4	2	1,000 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					010 SURFACE MILL ( 4%)
JETWELD LH-70 E7018	6	11	4	1,006 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 14%)			619 WELDER ( 50%)		010 SURFACE MILL ( 6%)
STAINWELD 308-16 E308-16	2	7	3	205 LBS.	
(5) OCCUPATIONS					
619 WELDER ( 50%)					010 SURFACE MILL ( 2%)

TABLE 4, PAGE 79 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(5) OCCUPATIONS	(6) LOCATIONS
THE LINCOLN ELECTRIC COMPANY FLEETWELD 180 E6011	2	10	4	513 LBS.		
-----						
376 TRUCK DRIVER ( 8%)					669 BIN PULLER; TRUCK LOADER ( 20%)	010 SURFACE MILL ( 2%)

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(5) OCCUPATIONS	(6) LOCATIONS
LINCOLNWELD T 035 L-50	1	1	<1	120 LBS.		
-----						
604 MECHANIC ( 3%)						005 SURFACE SHOP ( 5%)

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(5) OCCUPATIONS	(6) LOCATIONS
STAINWELD 308L-16 CP1218 R2500	10	10	4	55 LBS.		
-----						
604 MECHANIC ( 34%)						009 SURFACE MISC ( 16%)

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(5) OCCUPATIONS	(6) LOCATIONS
THE MURPHY-PHOENIX COMPANY MURPHY'S TIRE AND TUBE MOUNTING COMPOUND	2	2	1	25 LBS.		
-----						
604 MECHANIC ( 7%)						005 SURFACE SHOP ( 10%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
THE NEW BRITAIN MACHINE CO. HEAVY DUTY ROTARY WIRE WHEEL B RUSH 8" DIAMETER 5/8-1/2" ARBOR HOLE NO. 30 WIRE W	2	2	1	1 LBS.	005 SURFACE SHOP ( 10%)
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					

THERMACOTE-WELCO

WELCO 1620 NOZZLE SHIELD ANTI-SPLATTER (AEROSOL)	2	2	1	11 LBS.	(6) LOCATIONS
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					

THORO PRODUCTS CO.

X-O-X BLEACH	1	1	<1	3 GALS.	(6) LOCATIONS
(5) OCCUPATIONS					
674 WAREHOUSEMAN; SUPPLY HANDLER ( 50%)					
009 SURFACE MISC ( 2%)					

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
TIFCO INDUSTRIES					
TIFCO SPRAY CHEMICAL 8393 PENE TRATING OIL CASE NO. 8243 (AEROSOL)	10	10	4	21 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 34%)					

TRW REPLACEMENT DIVISION

8 IN X 1 IN. MEDIUM GRINDING W HEEL NO. 662355	2	2	1	5 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 7%)					

UNION CARBIDE CORP. / LINDE DIVISION

BRAZO BRAND FLUX PART NO. 721F 00	1	1	<1	1 LBS.	
(5) OCCUPATIONS					
618 GREASER; OILER (100%)					

TABLE 4, PAGE 82 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
LINDE GOUGING ELECTRODE	7	7	3	10 LBS.	
-----					
OCCUPATIONS					
604 MECHANIC ( 24%)					009 SURFACE MISC ( 11%)

UNION CARBIDE CORPORATION

PRESTONE II WINTER ANTIFREEZE SUMMER COOLANT	10	10	4	70 GALS.	
-----					
OCCUPATIONS					
389 FORKLIFT OPTR (100%) 613 CLEANUP MAN ( 75%)					010 SURFACE MILL ( 6%) 009 SURFACE MISC ( 6%)
-----					
PRESTONE II WINTER SUMMER CONC ENTRATE	1	5	2	154 GALS.	
-----					
OCCUPATIONS					
376 TRUCK DRIVER ( 8%)					010 SURFACE MILL ( 1%)

UNION CARBIDE CORPORATION / LINDE DIVISION

ACETYLENE UN 1001	27	27	11	154,434 GALS.	
-----					
OCCUPATIONS					
488 DRY SCREENING PLANT OPTR ( 17%)					005 SURFACE SHOP ( 25%) 009 SURFACE MISC ( 27%)

(CONTINUED NEXT PAGE)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
ACETYLENE UN 1001 (CONTINUED)	27	27	11	154,434 GALS.	
<hr/>					
(5) OCCUPATIONS					
618 GREASER; OILER (100%)					
<hr/>					
UNION CARBIDE/ LINDE DIVISION					
OXWELD 25-M FLUX COATED BRONZE WELDING ROD	7	7	3	10 LBS.	
(5) OCCUPATIONS					
604 MECHANIC ( 24%)					
<hr/>					
UNION CHEMICALS					
METHYL ALCOHOL METHANOL	2	2	1	55 GALS.	
(5) OCCUPATIONS					
618 GREASER; OILER (100%)					
					(6) LOCATIONS
					010 SURFACE MILL ( 1%)
					004 SURFACE MINE ( 6%)
					009 SURFACE MISC ( 11%)

TABLE 4, PAGE 84 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	COMMODITY NAME: PERLITE				PREDICTED ANNUAL USAGE	LOCATIONS
	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4)		
UNION GAS						
PROPANE	3	15	6	9,343 LBS.		
(5) OCCUPATIONS						
649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)	879	BAGGING OR PACKING WRKR ( 7%)				010 SURFACE MILL ( 3%)
UNIVERSAL MOTOR OILS CO.						
PERMANENT ANTI-FREEZE	1	5	2	77 GALS.		
(5) OCCUPATIONS						
376 TRUCK DRIVER ( 8%)						010 SURFACE MILL ( 1%)
WAGNER / WAGNER ELECTRIC CORPORATION						
WAGNER AIR LINE ANTI-FREEZE A-99844	2	2	1	1 GALS.		
(5) OCCUPATIONS						
604 MECHANIC ( 7%)						005 SURFACE SHOP ( 10%)

TABLE 4, PAGE 85 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
WAGNER DIVISION, MCGRAW-EDISON COMPANY					
WAGNER BRAKE FLUID 21-B SUPER HEAVY DUTY FC-9313	2	7	3	7 GALS.	
(5) OCCUPATIONS					
619 WELDER ( 50%)					010 SURFACE MILL ( 2%)
WARREN OIL COMPANY					
POLAR ANTI-FREEZE AND SUMMER C OOLANT	4	4	2	40 GALS.	
(5) OCCUPATIONS					
389 FORKLIFT OPTR ( 33%)					009 SURFACE MISC ( 6%)
WAYNE WELDING EQUIPMENT CO.					
GRINDING DISC 9X1/4X5/8-11 9 I N.GRADE A24-S-B4F	2	7	3	55 LBS.	
(5) OCCUPATIONS					
619 WELDER ( 50%)					010 SURFACE MILL ( 2%)

TABLE 4, PAGE 86 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
WD-40 COMPANY					
WD-40	10	10	4	6 GALS.	
(5) OCCUPATIONS					
602 ELECTRICIAN ( 25%)		604 MECHANIC ( 31%)			005 SURFACE SHOP ( 45%) 009 SURFACE MISC ( 13%)
WD-40 (AEROSOL)	7	31	13	250 LBS.	
(5) OCCUPATIONS					
376 TRUCK DRIVER ( 15%)		619 WELDER ( 50%)			004 SURFACE MINE ( 6%) 010 SURFACE MILL ( 6%)
669 BIN PULLER; TRUCK LOADER ( 20%)		879 BAGGING OR PACKING WRKR ( 7%)			
WELSH OIL CO.					
LEADED GASOLINE	4	4	2	2,000 GALS.	
(5) OCCUPATIONS					
604 MECHANIC ( 14%)					010 SURFACE MILL ( 4%)
WESTERN SLOPE					
NATURAL GAS	5	5	2	44,883,000 GALS.	
(5) OCCUPATIONS					
379 DRYER OPTR; KILN OPTR ( 67%)		602 ELECTRICIAN ( 25%)			009 SURFACE MISC ( 8%)

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
WOODARD, INC.					
AMMONIUM NITRATE-FUEL OIL MIXT URE BLASTING AGENT	5	5	2	225,000 LBS.	

(5)  
OCCUPATIONS

368 BULLDOZER OPTR ( 25% )  
734 ROTARY DRILL OPTR (100%)

376 TRUCK DRIVER ( 23% )

004 SURFACE MINE ( 29% )

WORLD BESTOS / A DIVISION OF LEAR SIEGLER, INC.

HEAVY DUTY PREMIUM BRAKE BLOCK S 4515 D	2	2	1	48 LBS.	
--	---	---	---	---------	--

(5)  
OCCUPATIONS

376 TRUCK DRIVER ( 15% )

(6)  
LOCATIONS

004 SURFACE MINE ( 12% )

ZEP MANUFACTURING COMPANY / DIVISION OF NATIONAL SERVICE INDUSTRIES, INC.

ZEP CAR WASH PRODUCTS ZEPPOWER LIQUID HEAVY-DUTY CAR WASH PROD. #0597	2	2	1	3 GALS.	
--	---	---	---	---------	--

(5)  
OCCUPATIONS

604 MECHANIC ( 7% )

(6)  
LOCATIONS

005 SURFACE SHOP ( 10% )

TRADENAME PRODUCTS FOUND ON MINE PROPERTY

COMMODITY NAME: PERLITE

MANUFACTURE'S NAME AND TRADENAME PRODUCTS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) PREDICTED ANNUAL USAGE	(6) LOCATIONS
ZEP-A-LUME SUPER ALUMINUM CLEANER & BRIGHTENER	2	2	1	3 GALS.	005 SURFACE SHOP ( 10% )
<hr/>					
(5) OCCUPATIONS					
604 MECHANIC ( 7% )					

3M

THREE-M-ITE ELEK-TRO-CUT CLOTH UTILITY ROLL 100 GRIT PART NO. 051144-05029

(5) OCCUPATIONS	(6) LOCATIONS
604 MECHANIC ( 14% )	010 SURFACE MILL ( 4% )

THREE-M-ITE ELEK-TRO-CUT CLOTH UTILITY ROLL 80 GRIT PART NO. 5030

(5) OCCUPATIONS	(6) LOCATIONS
604 MECHANIC ( 14% )	010 SURFACE MILL ( 4% )

TABLE 5, PAGE 1 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

PHYSICAL AGENT CONDITIONS IDENTIFIED ON MINE PROPERTY

COMMODITY NAME: PERLITE

(1)	(2)	(3)
#WORKERS POTENTIALLY EXPOSED (OBSERVED)	#WORKERS POTENTIALLY EXPOSED (PREDICTED)	%WORKERS POTENTIALLY EXPOSED (PREDICTED)

PHYSICAL AGENT CONDITION NOISE 101 148 61

(5)

OCCUPATIONS

079 CRUSHER OPTR (100%)  
 368 BULLDOZER OPTR (100%)  
 376 TRUCK DRIVER ( 77%)  
 389 FORKLIFT OPTR ( 33%)  
 514 LABORATORY TECHNICIAN (100%)  
 604 MECHANIC ( 52%)  
 614 SAMPLER; DUST SAMPLER (100%)  
 619 WELDER ( 25%)  
 669 BIN PULLER; TRUCK LOADER (100%)  
 728 COMPLETE LOAD/HAUL/DUMP CYCLE (100%)  
 782 FRONT-END LOADER OPTR (100%)

(6)  
 LOCATIONS

002 UNDERGROUND SHOP (100%)  
 005 SURFACE SHOP ( 80%)  
 004 SURFACE MINE ( 88%)  
 006 SURFACE CRUSHING ( 50%)  
 009 SURFACE MISC ( 67%)  
 010 SURFACE MILL ( 49%)

SEGMENTAL BODY VIBRATION

(5)

OCCUPATIONS

604 MECHANIC ( 38%) 32 32 13  
 879 BAGGING OR PACKING WRKR ( 70%)

(6)  
 LOCATIONS

005 SURFACE SHOP ( 20%)  
 009 SURFACE MISC ( 11%)  
 010 SURFACE MILL ( 20%)

TEMPERATURE (PROCESS RELATED)

(5)

OCCUPATIONS

179 BALL, ROD, PEBBLE MILL OPTR (100%) 29 36 15  
 379 DRYER OPTR; KILN OPTR ( 33%)

(6)  
 LOCATIONS

(CONTINUED NEXT PAGE)

TABLE 5, PAGE 2 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

PHYSICAL AGENT CONDITIONS IDENTIFIED ON MINE PROPERTY

COMMODITY NAME: PERLITE

(1)	(2)	(3)
#WORKERS POTENTIALLY EXPOSED (OBSERVED)	#WORKERS POTENTIALLY EXPOSED (PREDICTED)	%WORKERS POTENTIALLY EXPOSED (PREDICTED)
29	36	15

PHYSICAL AGENT CONDITION  
TEMPERATURE (PROCESS RELATED)  
(CONTINUED)

(5)

OCCUPATIONS

613 CLEANUP MAN ( 25%)

879 BAGGING OR PACKING WRKR ( 77%)

(6)

LOCATIONS

009 SURFACE MISC ( 3%)  
010 SURFACE MILL ( 26%)

WHOLE BODY VIBRATION

(5)

OCCUPATIONS

079 CRUSHER OPTR ( 50%)  
368 BULLDOZER OPTR ( 75%)  
376 TRUCK DRIVER ( 69%)  
488 DRY SCREENING PLANT OPTR ( 67%)  
613 CLEANUP MAN (100%)  
616 LABORER; BULLGANG ( 50%)  
669 BIN PULLER; TRUCK LOADER ( 60%)  
879 BAGGING OR PACKING WRKR ( 3%)

27

65

46

(6)

LOCATIONS

002 UNDERGROUND SHOP (100%)  
010 SURFACE MILL ( 18%)  
004 SURFACE MINE ( 53%)  
009 SURFACE MISC ( 28%)

179 BALL, ROD, PEBBLE MILL OPTR (100%)  
375 ROAD GRADER OPTR (100%)  
379 DRYER OPTR; KILN OPTR ( 33%)  
604 MECHANIC ( 7%)  
614 SAMPLER; DUST SAMPLER (100%)  
649 ADMN, SUPERVISORY, MGT PERSNL ( 45%)  
782 FRONT-END LOADER OPTR (100%)

TABLE 6, PAGE 1 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

MUSCULOSKELETAL OVERLOAD CONDITIONS IDENTIFIED ON MINE PROPERTY

COMMODITY NAME: PERLITE

(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)
20	35	14

MUSCULOSKELETAL CONDITION

AWKWARD LIFTING

(5)  
OCCUPATIONS

079 CRUSHER OPTR ( 50% )  
389 FORKLIFT OPTR ( 33% )  
616 LABORER; BULLGANG ( 50% )  
879 BAGGING OR PACKING WRKR ( 20% )

(6)  
LOCATIONS

002 UNDERGROUND SHOP ( 100% )  
010 SURFACE MILL ( 3% )  
009 SURFACE MISC ( 22% )

FOREARM, ARM, AND SHOULDER

(5)

39 68 28  
179 BALL, ROD, PEBBLE MILL OPTR ( 100% )  
613 CLEANUP MAN ( 75% )  
669 BIN PULLER; TRUCK LOADER ( 20% )

(6)  
LOCATIONS

002 UNDERGROUND SHOP ( 100% )  
004 SURFACE MINE ( 6% )  
005 SURFACE SHOP ( 20% )  
009 SURFACE MISC ( 23% )  
010 SURFACE MILL ( 15% )

DIMINISHED LIGHT

(5)

2 2 1  
179 BALL, ROD, PEBBLE MILL OPTR ( 100% )  
376 TRUCK DRIVER ( 8% )  
488 DRY SCREENING PLANT OPTR ( 33% )  
613 CLEANUP MAN ( 100% )  
616 LABORER; BULLGANG ( 100% )  
649 ADMN. SUPERVISORY, MGT PERSNL ( 9% )  
879 BAGGING OR PACKING WRKR ( 27% )

(6)  
LOCATIONS

009 SURFACE MISC ( 3% )

MUSCULOSKELETAL OVERLOAD CONDITIONS IDENTIFIED ON MINE PROPERTY

COMMODITY NAME: PERLITE			
(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)		
(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(4) #WORKERS POTENTIALLY EXPOSED (PREDICTED)		
MUSCULOSKELETAL CONDITION	58	66	27
FINGER AND HANDS			
(5) OCCUPATIONS			
368 BULLDOZER OPTR ( 50%)	389 FORKLIFT OPTR (100%)		
514 LABORATORY TECHNICIAN ( 75%)	604 MECHANIC ( 38%)		
613 CLEANUP MAN (100%)	614 SAMPLER; DUST SAMPLER (100%)		
616 LABORER; BULLGANG ( 50%)	669 BIN PULLER; TRUCK LOADER ( 20%)		
879 BAGGING OR PACKING WRKR ( 97%)			
FREQUENT LIFTING	36	38	16
(5) OCCUPATIONS			
389 FORKLIFT OPTR ( 33%)	613 CLEANUP MAN ( 75%)		
616 LABORER; BULLGANG ( 50%)	669 BIN PULLER; TRUCK LOADER ( 20%)		
879 BAGGING OR PACKING WRKR ( 93%)			
HEAVY LIFTING	15	23	10
(5) OCCUPATIONS			
389 FORKLIFT OPTR ( 33%)	613 CLEANUP MAN ( 75%)		
616 LABORER; BULLGANG ( 50%)	669 BIN PULLER; TRUCK LOADER ( 20%)		
674 WAREHOUSEMAN; SUPPLY HANDLER ( 50%)	879 BAGGING OR PACKING WRKR ( 20%)		
LOWER LIMB	19	34	14
(5) OCCUPATIONS			
079 CRUSHER OPTR ( 50%)	179 BALL, ROD, PEBBLE MILL OPTR (100%)		

(CONTINUED NEXT PAGE)

(6)  
LOCATIONS  
005 SURFACE SHOP ( 55%)  
009 SURFACE MISC ( 22%)  
010 SURFACE MILL ( 32%)

(6)  
LOCATIONS  
009 SURFACE MISC ( 22%)  
010 SURFACE MILL ( 21%)

(6)  
LOCATIONS  
009 SURFACE MISC ( 20%)  
010 SURFACE MILL ( 2%)

(6)  
LOCATIONS  
002 UNDERGROUND SHOP (100%)

TABLE 6, PAGE 3 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

MUSCULOSKELETAL OVERLOAD CONDITIONS IDENTIFIED ON MINE PROPERTY

COMMODITY NAME: PERLITE

	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(6) LOCATIONS
MUSCULOSKELETAL CONDITION	19	34	14	
LOWER LIMB (CONTINUED)				
<b>(5)</b>				
<b>OCCUPATIONS</b>				
604 MECHANIC ( 34%)		618 GREASER; OILER (100%)		005 SURFACE SHOP ( 50%)
669 BIN PULLER; TRUCK LOADER ( 20%)	41	879 BAGGING OR PACKING WRKR ( 3%)	22	010 SURFACE MILL ( 4%)
				009 SURFACE MISC ( 14%)
NECK AND/OR BACK	41	53		
<b>(5)</b>				
<b>OCCUPATIONS</b>				
079 CRUSHER OPTR ( 50%)		368 BULLDOZER OPTR ( 50%)		002 UNDERGROUND SHOP (100%)
376 TRUCK DRIVER ( 8%)		389 FORKLIFT OPTR (100%)		004 SURFACE MINE ( 6%)
488 DRY SCREENING PLANT OPTR ( 33%)		514 LABORATORY TECHNICIAN ( 75%)		005 SURFACE SHOP ( 55%)
604 MECHANIC ( 38%)		613 CLEANUP MAN (100%)		010 SURFACE MILL ( 15%)
614 SAMPLER; DUST SAMPLER (100%)		616 LABORER; BULLGANG (100%)		009 SURFACE MISC ( 27%)
618 GREASER; OILER (100%)		649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)		
669 BIN PULLER; TRUCK LOADER ( 20%)	4	879 BAGGING OR PACKING WRKR ( 3%)	2	
PRONE OR SUPINE LYING	4	4		
<b>(5)</b>				
<b>OCCUPATIONS</b>				
604 MECHANIC ( 14%)				005 SURFACE SHOP ( 20%)

TABLE 6, PAGE 4 NOTE: TRADE SECRET DATA HAVE BEEN EXCLUDED FROM THIS TABLE.

MUSCULOSKELETAL OVERLOAD CONDITIONS IDENTIFIED ON MINE PROPERTY

COMMODITY NAME: PERLITE

(1)	(2)	(3)
#WORKERS POTENTIALLY EXPOSED (OBSERVED)	#WORKERS POTENTIALLY EXPOSED (PREDICTED)	%WORKERS POTENTIALLY EXPOSED (PREDICTED)

10 18 7

MUSCULOSKELETAL CONDITION

STANDING

(5)

OCCUPATIONS

613 CLEANUP MAN ( 75%)

879 BAGGING OR PACKING WRKR ( 23%)

(6)

LOCATIONS

009 SURFACE MISC ( 13%)  
010 SURFACE MILL ( 2%)

SITTING

3

3

1

(5)

OCCUPATIONS

613 CLEANUP MAN ( 75%)

(6)

LOCATIONS

009 SURFACE MISC ( 5%)

WRIST

33

44

18

(5)

OCCUPATIONS

368 BULLDOZER OPTR ( 50%)  
389 FORKLIFT OPTR ( 33%)  
613 CLEANUP MAN (100%)  
616 LABORER; BULLGANG ( 50%)  
879 BAGGING OR PACKING WRKR ( 27%)

(6)

LOCATIONS

004 SURFACE MINE ( 6%)  
005 SURFACE SHOP ( 55%)  
009 SURFACE MISC ( 22%)  
010 SURFACE MILL ( 7%)

376 TRUCK DRIVER ( 8%)  
604 MECHANIC ( 38%)  
614 SAMPLER; DUST SAMPLER (100%)  
669 BIN PULLER; TRUCK LOADER ( 20%)

TABLE 7, PAGE 1 NOTE: THIS TABLE DOES NOT CONTAIN DATA CLAIMED TO BE TRADE SECRET.

WELDING POTENTIAL EXPOSURE

COMMODITY NAME: PERLITE

	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)
WELDING PROCESS	7	7	3
ARC CUTTING			

(5)  
OCCUPATIONS

604 MECHANIC ( 24%)

(6)  
LOCATIONS

009 SURFACE MISC ( 11%)

ARC WELDING

(5)  
OCCUPATIONS

604 MECHANIC ( 7%)

649 ADMN, SUPERVISORY, MGT PERSNL ( 9%)

619 WELDER ( 75%)

(6)  
LOCATIONS

005 SURFACE SHOP ( 10%)

010 SURFACE MILL ( 4%)

METAL ARC WELDING

(5)  
OCCUPATIONS

602 ELECTRICIAN ( 25%)

619 WELDER ( 25%)

604 MECHANIC ( 48%)

(6)  
LOCATIONS

009 SURFACE MISC ( 16%)

010 SURFACE MILL ( 4%)

005 SURFACE SHOP ( 10%)

SHIELD METAL ARC WELDING

(5)  
OCCUPATIONS

376 TRUCK DRIVER ( 8%)

604 MECHANIC ( 31%)

(6)  
LOCATIONS

005 SURFACE SHOP ( 10%)

009 SURFACE MISC ( 11%)

(CONTINUED NEXT PAGE)

TABLE 7, PAGE 2 NOTE: THIS TABLE DOES NOT CONTAIN DATA CLAIMED TO BE TRADE SECRET.

WELDING POTENTIAL EXPOSURE

COMMODITY NAME: PERLITE

WELDING PROCESS	(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(6) LOCATIONS
SHIELD METAL ARC WELDING (CONTINUED)	14	26	11	010 SURFACE MILL ( 5%)

(5)  
OCCUPATIONS

618 GREASER; OILER (100%) 619 WELDER ( 25%)  
649 ADMN, SUPERVISORY, MGT PERSNL ( 9%) 669 BIN PULLER; TRUCK LOADER ( 20%)

TORCH BRAZING

(5)

OCCUPATIONS

604 MECHANIC ( 28%)

618 GREASER; OILER (100%)

9 9 4

FLUX CORED ARC WELDING

(5)

OCCUPATIONS

604 MECHANIC ( 24%)

7 7 3

GAS METAL ARC WELDING

(5)

OCCUPATIONS

604 MECHANIC ( 38%)

11 11 5

(6)

LOCATIONS

005 SURFACE SHOP ( 20%)  
009 SURFACE MISC ( 11%)

(6)

LOCATIONS

009 SURFACE MISC ( 11%)

(6)

LOCATIONS

005 SURFACE SHOP ( 5%)  
009 SURFACE MISC ( 11%)  
010 SURFACE MILL ( 1%)

TABLE 7, PAGE 3 NOTE: THIS TABLE DOES NOT CONTAIN DATA CLAIMED TO BE TRADE SECRET.

WELDING POTENTIAL EXPOSURE			
COMMODITY NAME: PERLITE			
(1) #WORKERS POTENTIALLY EXPOSED (OBSERVED)	(2) #WORKERS POTENTIALLY EXPOSED (PREDICTED)	(3) %WORKERS POTENTIALLY EXPOSED (PREDICTED)	(6) LOCATIONS
WELDING PROCESS	29		
OXYFUEL GAS CUTTING	37	15	
(5) OCCUPATIONS			
376 TRUCK DRIVER ( 8%)		488 DRY SCREENING PLANT OPTR ( 17%)	005 SURFACE SHOP ( 25%)
604 MECHANIC ( 86%)		618 GREASER; OILER (100%)	009 SURFACE MISC ( 27%)
669 BIN PULLER; TRUCK LOADER ( 20%)			010 SURFACE MILL ( 7%)
OXYFUEL WELDING			
1	3	1	
(5) OCCUPATIONS			
619 WELDER ( 25%)			010 SURFACE MILL ( 1%)
OXYACETYLENE WELDING			
5	5	2	
(5) OCCUPATIONS			
604 MECHANIC ( 17%)			005 SURFACE SHOP ( 25%)

