Hazardous Materials Control Module

Richard H. Fiddleman
Kathlynn D. Miller

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The Hazardous Materials Control Module (HMC) is one module of four for the Industrial Health component. The HMC module was designed to inform employees of health and safety hazards in the workplace and to track the movement of hazardous materials through the facility. The module performs these functions by maintaining health and safety data on hazardous materials used in the facility, and by tracking who requests information about any hazardous materials. The HMC module gets its information from two sources, the first one is the Hazardous Materials Information System (HMIS), this is a national system that is used by the Department of Defense. It is loaded on to the system via tapes that contain all safety, health, and transportation information about a particular product. The second is Material Safety Data Sheets (MSDS) that are procured by a particular site. This information is manually entered into their own personal system, which they give a site specific sequential number.
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1.0 BACKGROUND

1.1 Purpose of the Manual

This manual describes the capabilities of the Hazardous Materials Control (HMC) module of the Naval Medical Command's (NAVMED) Navy Occupational Health Information Management System (NOHIMS). After presenting some background information on the total NOHIMS system, the manual describes the module’s significant data input and output processes. Examples of output reports appear in the appendices. The information in this document is intended to help the reader understand how this module can help improve the handling and tracking of hazardous materials.

1.2 References

The following publications provide background information on the HMC module:

- DoD Hazardous Materials Information System Procedures, DoD 6050.5M, July 1981
- Federal Supply Classification Part 1: Groups and Classes, SB 708-21, May 1982
- Navy Occupational Safety and Health (NAVOSH) Program Manual, OPNAV Instruction 5100.23B, August 31, 1983
- Material Management Application - Shelf Life/Hazardous Materials Analysis Package, August 1984
- NAVSUP Instruction 5100.27: Navy Hazardous Material Control Program
- Consolidated Hazardous Item List (CHIL) - NAVSUP Publication 4500, July 1980
1.3 Terms and Abbreviations

The following terms and abbreviations are used in this manual:

- **CAS (Chemical Abstract Service) Number**: A unique identification number given to chemical substances by the Chemical Abstract Service

- **IHed**: The Industrial Hygienist at the medical clinic

- **FSC (Federal Supply Class)**: The first 4 digits of the 13-digit national stock number

- **FSCM (Federal Supply Code for Manufacturers)**: A 5-digit code used to identify manufacturers and distributors of hazardous materials

- **HMIS (Hazardous Material Information System)**: A computer-based information system developed to accumulate, maintain, and disseminate (on magnetic tape and microfiche) important characteristics of hazardous materials which exist throughout the DoD

- **LSN (Local Stock Number)**: A number assigned by a single facility to identify a hazardous material used in that facility

- **Material Name**: The part number, trade name or synonym commonly used to refer to a hazardous material

- **MSDS (Material Safety Data Sheet)**: A summary of the information known about a hazardous substance; must be supplied by a vendor when a facility purchases such material

- **NFPA (National Fire Prevention Association) Code**: A code assigned by the National Fire Prevention Association that reflects the health, fire, and reactivity hazards of a substance

- **NIIN (National Item Identification Number)**: The last 9 digits of the 13-digit national stock number

- **NIOSH (National Institute of Occupational Safety and Health) Number**: A unique number assigned to materials by the National Institute of Occupational Safety and Health

- **NSN (National Stock Number)**: A 13-digit number used throughout the Navy to refer to any material purchased through the Federal Supply System

- **U.I.C. (Unit Identification Code)**: A unique number assigned to reach Navy facility

1-2
- **Vendor**: The manufacturer or distributor of material purchased for use in a Navy facility
- **Work Control Document**: A document used in shipyards that describes how to perform a job that involves hazardous materials
- **Worker Data Sheet (WDS)**: A summary of health and safety information on hazardous materials that is intended for use by the worker

### 1.4 Hazardous Materials Control Module Overview

The HMC module maintains health, safety, and location data on hazardous materials used in a Navy facility and keeps track of who requests this information. Figure 1-1 shows the module's major inputs, processes, files, and outputs. Health and safety data are entered into the system from several sources. Periodically, health and safety information is entered from tapes created by the HMIS. More recent health and safety data are entered manually directly from MSDS's.

Other health-related data and references to work control documents can also be keyed manually into the system. In addition, each local facility can add clarifying comments to most data fields. The module also has the capability of tracking requests for hazardous materials information. This feature is used to see which shops need information on which materials.

Outputs from the module consist of reports summarizing the contents of the database and worker data sheets that are intended for distribution to workers.
2.0 NOHIMS OVERVIEW

2.1 NOHIMS Modules

NOHIMS is divided into two separate components—the Industrial component and the Medical component. The Industrial component consists of four major application modules—Administration, Environmental Exposure, Medical Exam Scheduling, Hazardous Materials Control—and various special purpose support modules. The Administration module maintains files that are used by all or most of the other application modules; these files contain data on employees, locations, operations, occupations, stressors, and agencies. The supporting modules, to be developed at a later date, will provide interfaces to statistical and graphics packages and will also permit transmission of data between NOHIMS computers. The Medical component of NOHIMS is a modification of the public-domain software package COSTAR (COmputer-STored Ambulatory Recordkeeping system).

2.2 System Environment

NOHIMS will be implemented in medical clinics at Naval Air Rework Facilities (NARF's) and Navy shipyards; computer hardware dedicated for use by NOHIMS will be procured and installed there. The system will be hosted on minicomputers using video display terminals (VDTs), workstations, and printers located throughout the host facility. The size and number of minicomputers will differ from location to location, depending on workload and geographic distribution considerations. Data will be entered on-line and can be retrieved either on-line or via reports printed at night (or any later time).

NOHIMS is programmed in the MUMPS programming language and the Veterans Administration (VA) FileMan and Kernel software packages. Initially developed at the Laboratory of Computer Science at Massachusetts General Hospital, the Massachusetts General Hospital Utility Multi-Programming System (MUMPS) programming language is a combination operating system, file handler, and interpreter. The language was designed from its conception for use in an on-line, multi-user environment. MUMPS is a general-purpose language especially suited to storing and retrieving hierarchical data and processing strings, e.g., free text data, efficiently.

Using the MUMPS language, the VA developed the VA FileMan software package. A programmer or an end-user can use the features of the VA FileMan to specify the characteristics of files and/or fields within these files and to save these specifications in a data dictionary, to specify standard input and output processes and to store these processes in templates, and to execute ad hoc queries against a VA FileMan data base. The VA Kernel displays and manages the system's menus, controls user and device access to the system, manages the security features associated with menus, devices, and users, provides electronic mail functions, and enables users to schedule jobs.
for later execution. Most NOHIMS files and input and output processes are implemented using VA FileMan. Processes that could not be efficiently or effectively accomplished using the features available in VA FileMan were developed using the MUMPS programming language.

2.3 System Data Base

NOHIMS contains over 100 files. There are two types of files:

- Application files—These files are primarily intended to support the functions of a specific module, although in certain cases they may be used by other modules. In addition, the contents of these files change frequently as new data is added to the files or old data is removed from these files.

- Reference files—These files are primarily intended to be used by a specific module, although in certain cases they may also be used by more than one module. These files differ from application files in that they contain controlled vocabularies of terms. The contents of these files are usually static or change slowly over time.

In many cases, the contents of reference files have been received from various sources within the Navy. It is possible, however, for the local site to build its own reference files. The application files used by the Administration module—Agency, Employee, Location, Operation, Occupation, and Stressor—frequently act as reference files in that they control what data can be entered into certain data fields. The contents of three of these files, Agency, Employee, and Location, can be changed by the local site.

There are no software limitations on the size of files, the number of fields in the files, or the number of files in the system.
3.0 MODULE INPUT PROCESSES

3.1 Summary of Input Processes

The Hazardous Materials Control module contains many menu options that enable the user to enter data into the module's files or to edit or delete existing data. These options can be grouped into processes where each process performs enter, edit, or deletion activities on a specific type of data. The module's input processes are as follows:

- HMIS data maintenance
- Local MSDS data maintenance
- Data sheet request tracking

Maintaining HMIS data involves the periodic updating of the NOHIMS files from HMIS system tapes. Local MSDS data is maintained by manually keying the data contained in MSDS's received from vendors. Data sheet request information is entered manually whenever a request for a data sheet is received by the IH.

3.2 HMIS Data Maintenance

Seven HMIS tapes are sent by the Navy Environmental Health Center (NEHC) to NARDAC Washington in November, February, May, and August. NARDAC Washington will copy these tapes and send them to each NOHIMS site. There are four tapes containing safety data and two tapes containing transportation data (one tape containing reference data is not used in NOHIMS). These tapes contain records on all 35,000 materials used by DoD. All additions, changes, and deletion on these tapes are transferred to corresponding entries in NOHIMS during each quarterly update.

Between quarterly updates, each facility may add additional HMIS records to their files by entering the three identifying fields for each new record (stock number, federal supply code for manufacturer, and part number indicator) and then processing the tapes. When the new records have been transferred from the tapes, processing stops. Any remaining tapes do not have to be read.

Each facility may annotate any HMIS record by adding comments to fields in the NOHIMS file.
3.3 Local MSDS Data Maintenance

Local MSDS's are sent to the IH from the facility's supply department whenever an MSDS is received from a vendor. The data from the MSDS is then keyed into the system. These locally entered MSDS's stay in the system as discrete entries until they are manually deleted. HMIS updates do not affect these local MSDS entries. Local MSDS's contain the same categories of information as the HMIS updates. The ability to enter local MSDS's separately from HMIS updates enables each facility to have on file current hazardous materials information that may not appear on the HMIS tapes until some later date.

The following categories of information are entered for each MSDS record:

- Identification information
- Ingredients
- Physical data
- Fire and explosion data
- Health hazard
- Reactivity data
- Spill or leak procedures
- Special protection information
- Special precautions
- Transportation data
- References to work control documents (optional)
- Special health-related information such as acute and chronic toxicity, route of exposure, neutralizing agent, carcinogenicity, NFPA code, exposure limit, and early warning properties (optional)
- Comments on any of the standard MSDS items (optional)

3.4 Data Sheet Request Tracking

Whenever a data sheet is requested in the HMC module, the system asks the user to identify the person and shop that will be receiving the data sheet. This information is maintained by the module as a means of tracking where hazardous materials are located in the facility.
4.0 MODULE OUTPUT PROCESSES

4.1 Summary of Output Processes

The Hazardous Materials Control module contains many menu options that enable the user to obtain needed information from the module. These options can be grouped into processes, where each provides a specific type of information. There are four types of output processes in the HMC module:

- Report production
- Data sheets production
- Search for data on materials
- HMIS update results

Reports contain health, safety, or location information on a material or lists of shops requesting data sheets. The data sheets may either be those intended for distribution to workers or a complete listing of all the data about a given material. Search results are screen displays of all the data on a given material. HMIS updates produce four manager’s reports that document the status and results of the HMIS update run.

4.2 Report Production

There are three types of reports in the HMC module (Figure 4-1)—indexes, MSDS logs, and data sheet requests. Index information includes a material’s vendor, trade name, MSDS number, MSDS date, stock number, and approval code. [Indexes are used as quick references to materials on file in NOHIMS. Examples of indexes are given in Appendix A.] MSDS logs contain more extensive information about the materials on file, including its Federal Supply Code for Manufacturers (FSCM), form of material, National Fire Prevention Association, (NFPA) Code, ingredients, work control document number and CAS/NIOSH number (not all of these items appear on every report; each report has its own specific focus). Examples of MSDS logs are given in Appendix B. They contain data on the shop and building to which a material was issued, requesting shop, contract number, hazard code, stock number, material name and vendor.
FIGURE 4-1

OUTPUTS FROM REPORT PRODUCTION PROCESS
The Data Sheets Requested Report is used for determining where materials are located in the facility. An example of a Data Sheets Requested Report is given in Appendix C.

Under each report type below is a list of the data fields that are used in sorting reports. Each data field listed corresponds to a different report.

- **Indexes**
  - By vendor
  - By trade name
  - By MSDS date
  - By worker data sheet number

- **MSDS logs**
  - By MSDS number
  - By stock number
  - By MSDS date
  - By specification
  - By ingredient
  - By work control document name
  - By health code
  - By fire code
  - By reactivity code
  - By specific NFPA code
  - By material form

- **Location Reports**
  - By requesting shop

- **Data sheets requested report**
  - By requestor name
4.3 Data Sheet Production

There are three types of data sheets — worker data sheets (WDS’s), HMIS data sheets, and MSDS’s. They all contain the following information:

- MSDS-related data including:
  - Identification information
  - Ingredients
  - Physical data
  - Fire and explosion data
  - Health hazard data
  - Reactivity data
  - Spill or leak procedures
  - Special protection information
  - Special precautions
  - Transportation data
- References to work control documents
- Special health-related information, including:
  - Toxicity
  - Route of exposure
  - Neutralizing agent
  - NFPA code
  - Early warning properties

MSDS and HMIS data sheets also contain any local comments keyed into the system.

Worker data sheets (WDSs) are created at each local facility from HMIS records and local MSDS’s. They contain health and safety related information in terms that workers can readily understand and apply to their jobs. The MSDS data sheet is generated from a local MSDS entry in the Material file, and the HMIS data sheet is generated from an HMIS entry in the same file.
These two data sheets are meant to be used internally by the IH office when they need detailed information on a hazardous material.

Examples of MSDS, HMIS data sheets, and WDS's are given in Appendix D.

4.4 Search for Data on Materials

A hazardous material can be identified for display purposes by:

- WDS number
- Material name
- Ingredient
- Chemical name
- Vendor (manufacturer or distributor)
- Stock number
- CAS/NIOSH number
- Specification
- NIIN number
- Work control document number

The results of all these searches is a screen display of information on file for that material. An example of a search display is given in Appendix E.

4.5 HMIS Update Results

Whenever HMIS records are loaded into the NOHIMS, four reports are produced that document the status of the update process (Figure 4-2). These reports are:

- HMIS Update Report
- Materials Load Error Report
- MSDS Not Matched By HMIS Record
- Ingredients Not In Stressor File
The first report, HMIS Update Report, lists the records that were added, changed, or deleted in the NOHIMS file. The report shows the three key identifying fields of an HMIS record (stock number, federal supply code for manufacturers, and part number indicator), the material's name, and the vendor. The second report, Materials Load Error Report, contains a list of records that had one or more fields that did not pass input screening tests for that field. The three key fields are given, along with the field number and value of the fields in error.

The third report, MSDS Not Matched By HMIS Record, contains a list of materials that the user assumed would be updated by HMIS that, in fact, were not updated by HMIS. The report shows the stock number of the material and details of any local MSDS associated with that stock number. The Ingredients Not In Stressor File produces a list of materials that contain ingredients that are not included in the defined set of NOHIMS stressors.

Examples of these reports are given in Appendix F.
FIGURE 4-2
OUTPUTS FROM HMIS UPDATE PROCESS

4-7
APPENDIX A

In the following indexes, the term "vendor" refers to the manufacturer if there is one. If there is no manufacturer, "vendor" refers to the distributor. The term "trade name" may, in some cases, be a part number. HMIS documents define the trade name field to include part number or other synonym. In the case of local MSDS's, the first name keyed into the Material Name multiple is defined to be the trade name. Therefore, if some other name was entered before the trade name, that first name would appear on the indexes as the trade name. For HMIS entries, the column labeled "MSDS Number" contains the number of the local MSDS that covers the same material as the HMIS entry. Many HMIS entries do not have a corresponding local MSDS. The column labeled "MSDS Date" contains the date associated with the local MSDS if there is a local MSDS. If there is no local MSDS, the MSDS date in the HMIS entry is defined as the date the HMIS entry was added to the HMIS system. The column labeled "WDS Number" contains the number of the worker data sheet that has been created from the HMIS entry or local MSDS. The column labeled "Stock Number" refers to the national stock number for all HMIS entries. For local MSDS's, the stock number is the first local stock number entered with the local MSDS. If no local stock number was entered, the stock number is defined as the locally generated MSDS number. An asterisk following the stock number means that the stock number is a national stock number and there are, in addition, one or more local stock numbers associated with the entry.
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<th>MSDS NUMBER</th>
<th>MSDS DATE</th>
<th>WDS NUMBER</th>
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<td>BEOXIDINE 624</td>
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<td>FEB 2, 1981</td>
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APPENDIX B

EXAMPLES OF MSDS LOGS
APPENDIX B

In the following reports, the term "vendor" refers to the manufacturer if there is one. If there is no manufacturer, "vendor" refers to the distributor. The term "trade name" may, in some cases, be a part number. HMIS documents define the trade name field to include part number or other synonym. In the case of local MSDS's, the first name keyed into the Material Name multiple is defined to be the trade name. Therefore, if some other name was entered before the trade name, that first name would appear on the indexes as the trade name. For HMIS entries, the column labeled "MSDS Number" contains the number of the local MSDS that covers the same material as the HMIS entry. Many HMIS entries do not have a corresponding local MSDS. The column labeled "MSDS Date" contains the date associated with the local MSDS if there is a local MSDS. If there is no local MSDS, the MSDS date in the HMIS entry is defined as the date the HMIS entry was added to the HMIS system. The column labeled "WDS Number" contains the number of the worker data sheet that has been created from the HMIS entry or local MSDS. The column labeled "Stock Number" refers to the national stock number for all HMIS entries. For local MSDS's, the stock number is the first local stock number entered with the local MSDS. If no local stock number was entered, the stock number is defined as the locally generated MSDS number. An asterisk following the stock number means that the stock number is a national stock number and there are, in addition, one or more local stock numbers associated with the entry. The column labeled "FSCM" refers to the Federal Supply Code for Manufacturer. The column labeled "P/N" or "PNI" is the part number indicator.
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APPENDIX D

EXAMPLES OF DATA SHEETS
APPENDIX D

The data sheet on pages D-3 and D-4 labeled Hazardous Materials Data Sheet is the worker data sheet. The Material Safety Data Sheet on pages D-5 through D-8 is the full listing of an HMIS or local MSDS entry.
HAZARDOUS MATERIALS DATA SHEET

SECTION I - IDENTIFICATION INFORMATION

WDS #: W/O0181-1     WDS DATE: DEC 9, 1985
MATERIAL NAME: GACOFLEX HYPALON,
U.I.C.: 6     FACILITY: CNSY
MANUFACTURER NAME: GACO WESTERN INC.
MANUFACTURER ADDRESS:        EMERGENCY TELEPHONE:
CHEMICAL NAME: HYPALON       206 575-0450
TRADE NAME:
CHEMICAL FAMILY:
CHLOROSULFONATED POLYETHYLENE
NFPA CODE: 3330XY

SECTION II - HAZARDOUS INGREDIENTS

ALCOHOL, BENZENE, HYPALON, PIGMENTS, ALIPHATIC NAPHTHA,
ISOBUTYL ALCOHOL, N-PROPANOL, POLYVINYL ACETATE

SECTION III - PHYSICAL DATA

BOILING POINT: 110-347
APPEARANCE AND ODOR:
FORM: SOLID

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 40 F.
EXTINGUISHING MEDIA:
CARBON DIOXIDE/DRY POWDER/WATER FOG
FIRE FIGHTING PROCEDURES:
USE SELF CONTAINED BREATHING APPARATUS/PROTECTIVE CLOTHING
FIRE AND EXPLOSION HAZARDS:

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
DIZZINESS, HEADACHE/NAUSEA/LOSS OF CONSCIOUS.
EMERGENCY/FIRST AID PROCEDURES:
FRESH AIR/DO NOT INDUCE VOMIT/CALL DR.
ROUTE OF EXPOSURE:
EARLY WARNING PROPERTIES:
ACUTE TOXICITY:
CHRONIC TOXICITY:
CARCINOGENICITY:
TERATOGENICITY:
MUTAGENICITY:

SECTION VI - REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID (INSTABILITY):
INCOMPATABILITY (MATERIALS TO AVOID):
HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON MONOXIDE/CARBON DIOXIDE/SULFUR DIOXIDE
CONDITIONS TO AVOID (HAZARDOUS POLYMERIZATION):

---
SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL RELEASED OR SPILLED:
CLEAN WITH TOLUENE D DETERGENT

WASTE DISPOSAL METHOD:
LANDFILL

MIXTURE REPORTABLE SPILL QTY:

NEUTRALIZING AGENT:

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:
VENTILATION:
PROTECTIVE GLOVES:
EYE PROTECTION:
OTHER PROTECTIVE EQUIPMENT:

SECTION IX - SPECIAL PRECAUTIONS

HANDLING/STORAGE PRECAUTIONS:
COOL, DRY PLACE AWAY FROM SPARKS/FLAMES/OXIDIZERS

OTHER PRECAUTIONS:
DO NOT TAKE INTERN./AVOID CONTACT WITH EYES AND SKIN

SECTION X - OTHER INFORMATION

AUTO IGNITION TEMPERATURE:

SPECIAL LABELLING:

SPECIAL HAZARDS:

SPECIAL TRAINING:

COMMON USE:

COLOR:

WORK CONTROL DOCUMENT:
P/500

COLOR NO.:

DOC. NO.: P/500

REMARKS:
SECTION I - IDENTIFICATION INFORMATION

M/00181-1  COMMENT:
MSDS #: M/00181-1  MSDS DATE: AUG 6, 1986
WBS #: 6  WBS DATE: SOURCE MSDS:

COMMENT:

TRADE NAME: DEGREASING SOLVENT
U.I.C.: 00181
LOCAL STOCK NUMBER: A100, L999900123
SPECIFICATION: MIL-12309
NFPA: 33A/C
COLOR: CLEAR

COMMENT: THIS MATERIAL TURNS BLACK WHEN MIXED WITH PRODUCTS CONTAINING CHLORINE

COLOR NO.: 0

TRANSPORTATION FLAG: PHMS DATA FLAG: A SAFETY FLAG:
MATERIAL CHANGE CODE: MATERIAL ACTION CODE:
FOCAL POINT INDICATOR: PROPRIETARY INDICATOR: WDS FLAG:
MANUFACTURER NAME: MARFAN ELECTRONICS
MANUFACTURER ADDRESS: 1820 PRIMROSE TRAIL
MANUFACTURER DAY TELEPHONE: 212 456-4893 COMMENT:
MANUFACTURER NIGHT TELEPHONE: 212 201-3748 COMMENT:
DISTRIBUTOR NAME: INDUSTRIAL POLYCHMICAL SERVICE
DISTRIBUTOR ADDRESS: PO BOX 471, GARDENA, CALIFORNIA 90247
DISTRIBUTOR DAY TELEPHONE: 619 392-3029 COMMENT:
DISTRIBUTOR NIGHT TELEPHONE: NONE COMMENT:
EmerGENCY TELEPHONE: 212 564-1029 COMMENT:
FSCM: COMMENT:
PART NUMBER INDICATOR:
CHEMICAL NAME: 5-HYDROXYQUINONE
CHEMICAL FAMILY: QUINONE
CHEMICAL ID:
FORMULA: 5-OH-C6H12

SECTION II - INGREDIENTS

BENZENE  PCT: 10 %

TLV: 100 PPM  UNITS: . PEL:  UNITS:
OTHER LIMIT:  UNITS: . CAS: 0000-00-0  NIOSH: W/1

CHROMIUM  PCT:

TLV:  . UNITS: . PEL:  UNITS:
OTHER LIMIT:  UNITS: . CAS: CAS-1  NIOSH:

PETROLEUM DISTILLATE  PCT:

TLV:  . UNITS: . PEL:  UNITS:
OTHER LIMIT:  UNITS: . CAS: 44-3-4  NIOSH:

STODDARD SOLVENT  PCT:

TLV:  . UNITS: . PEL:  UNITS:
OTHER LIMIT:  UNITS: . CAS: 000-00-1  NIOSH: WJ8925000

ALIPHATIC NPHTHA  PCT:

D-5
MATERIAL SAFETY DATA SHEET

TIN

PCT: 10

PINE OIL

TLV: UNITS: PEL: UNITS: OTHER LIMIT: UNITS: CAS: 99999-34-3 NIOSH:

SECTION III - PHYSICAL DATA

BOILING POINT: 310 F COMMENT:
VAPOR PRESSURE: 29 MMHG COMMENT:
VAPOR DENSITY: 1.203 COMMENT:
SOLUBILITY IN WATER: 21 PPM COMMENT:
SPECIFIC GRAVITY: 2.19 COMMENT:
PCT. VOLATILE BY VOL.: 29% COMMENT:
EVAPORATION RATE: 10 COMMENT:
APPEARANCE AND ODOR: CLEAR AND ODORLESS COMMENT:

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 120 F COMMENT:
LEL: 1.8 COMMENT:
UEL: 11.9 COMMENT:
EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, FOAM COMMENT:
FIRE FIGHTING PROCEDURES: CLOSE OR CONFINED QUARTERS REG. BREATHING APP. COMMENT:
FIRE AND EXPLOSION HAZARDS: FIRE HAZARD BECAUSE OF LOW FLASS POINTS, HIGH VOLATILITY COMMENT:

SECTION V - HEALTH HAZARD DATA

TLV FOR THE MIXTURE: 200 PPM COMMENT:
EFFECTS OF OVEREXPOSURE: NAUSEA, DIZZINESS, HEADACHE, EYE IRRITATION COMMENT:
EMERG./FIRST AID PROC.: VAPORS: REMOVE TO FRESH AIR; LIQUID: WASH WITH WATER, REMOVE CLOTHES COMMENT:
ROUTE OF EXPOSURE: INHALATION ACUTE TOXICITY: NAUSEA, DEFATTING EFFECT ON TISSUES CHRONIC TOXICITY: NONE
MSDS EXPOSURE LIMIT: 250 PPM COMMENT:
EARLY WARNING SIGNS: LIGHTEAREDNESS CARCINOGENICITY: MAY CAUSE CANCER IN LABORATORY ANIMALS TERATOGENICITY: NONE MUTAGENICITY:

SECTION VI - REACTIVITY DATA

STABILITY: STABLE COMMENT:
COND. TO AVOID (INSTABILITY): KEEP FROM HEAT, SPARKS, OPEN FLAME COMMENT:
MAT. TO AVOID (INCOMPATIBLE): CAUSTICS, AMMONIA, INORGANIC ACIDS COMMENT:

D-6
MATERIAL SAFETY DATA SHEET

HAZARD. DECOMPOSITION PRODUCTS: CARBON DIOXIDE FROM PVC, CARBON MONOXIDE, HYDROGEN CHLORIDE
COMMENT:

HAZARD. POLYMERIZATION OCCUR: WILL NOT OCCUR
COMMENT:

COND. TO AVOID (HAZ, POLYM.):
COMMENT:

SECTION VII - SPILL OR LEAK PROCEDURES

SPILL AND LEAK CONTROL: ELIMINATE IGNITION SOURCES, AVOID BREATHING BAPORS
COMMENT:

WASTE ELIMINATION: INCINERATE
COMMENT:

REPORTABLE QTY.:
COMMENT:

NEUTRALIZING AGENT: SODA ASH

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: RESPIRATOR IN CONFINED SPACES
COMMENT:

VENTILATION: NORMAL VENT., PREFERABLE
COMMENT:

PROTECTIVE GLOVES: RUBBER OR PVC
COMMENT:

EYE PROTECTION: SAFETY GOGGLES
COMMENT:

OTHER PROTECTIVE EQUIPMENT:
COMMENT:

SECTION IX - SPECIAL PRECAUTIONS

HANDLING/STORAGE PRECAUTIONS:
COMMENT:

OTHER PRECAUTIONS:
COMMENT:

SPECIAL HAZARDS:
INSTABILITY WITH OTHER SOLVENTS

SUPPLEMENTAL DATA:

SECTION X - TRANSPORTATION INFORMATION

STORAGE COMPATIBILITY CODE:
COMMENT:

DOT ID NUMBER:
COMMENT:

DOT NAME:
COMMENT:

DOT CLASS:
COMMENT:

UNIT OF ISSUE:
COMMENT:

SIZE CONTAINER:
COMMENT:

TYPE CONTAINER:
COMMENT:

NET UNIT WEIGHT:
COMMENT:

MAGNETISM:
COMMENT:

RADIOACTIVITY:
COMMENT:

AUTO IGNITION TEMPERATURE:
COMMENT:

MATERIAL FORM:
COMMENT:

SECTION XI - OTHER INFORMATION

SPECIAL LABELLING: LABEL AS TO CONTENTS
SPECIAL TRAINING: NONE
MATERIAL SAFETY DATA SHEET

COMMON USE: DEGREASING SOLVENT
DOC. NUMBER: PI/10
NAME: SAND BLASTING
DATE:

DOC. NUMBER: PI/123
NAME: USE OF STANDARD SOLVENTS
DATE: APR 1, 1985

REMARKS: USE OF THIS MATERIAL IS RESTRICTED TO POSTED AREAS ANY OTHER USE WILL RESULT IN DISCIPLINARY ACTION AND/OR FINES
APPENDIX E

EXAMPLE OF OUTPUT FROM SEARCH PROCESS
STOCK NUMBER: M/00181-1
MATERIAL NAME: DEGREASING SOLVENT
MATERIAL NAME: SUPERsol-80
LOCAL STOCK NUMBER: A100
LOCAL STOCK NUMBER: L999900123
PRINT FLAG: P  THIS DATA FLAG: A
MANUFACTURER NAME: MARFAN ELECTRONICS
MANUFACTURER ADDRESS: 1920 PRIMROSE TRAIL
MANUFACTURER DAY TELEPHONE: 212 456-4892
MANUFACTURER NIGHT TELEPHONE: 212 201-3748
DISTRIBUTOR NAME: INDUSTRIAL POLYCHEMICAL SERVICE
DISTRIBUTOR ADDRESS: PO BOX 471-GARDENA, CALIFORNIA 90247
DISTRIBUTOR DAY TELEPHONE: 419 392-3029
DISTRIBUTOR NIGHT TELEPHONE: NONE
EMERGENCY TELEPHONE NUMBER: 212 564-1029
CHEMICAL NAMES: 5-HYDROXYQUINONE
CHEMICAL FAMILY: QUINONE
FORMULA: C6H12 O
INGREDIENTS: BENZENE PERCENT: 10% TLV: 100 PPM
CAS NO.: 0000-00-0 NIOSH No.: N/1
INGREDIENTS: CHROMIUM CAS NO.: CAS-1
INGREDIENTS: PETROLEUM DISTILLATE CAS NO.: 44-3-4
INGREDIENTS: STODDARD SOLVENT CAS NO.: 000-00-1 NIOSH NO.: W8925000
INGREDIENTS: ALIPHATIC NAPHTHA CAS NO.: 234-39-9
INGREDIENTS: TIN PERCENT: 10 CAS NO.: DA-1 NIOSH NO.: N-1
TLV UNITS: PERC
INGREDIENTS: FINE OIL CAS NO.: 9999-34-3
SPECIFICATION: MIL-12309 SPECIAL HAZARDS: INSTABILITY WITH OTHER SOLVENTS
BOILING POINT: 310 F VAPOR PRESSURE: 29 MMHG VAPOR DENSITY: 1.203
SOLUBILITY IN WATER: 21 PPM SPECIFIC GRAVITY: 2.19
PERCENT VAPORABLE BY VOLUME: 29% EVAPORATION RATE PER REFERENCE: 10
APPEARANCE AND ODOR: CLEAR AND ODORLESS FLASH POINT: 120 F
LOWER EXPLOSIVE LIMIT: 1.8 UPPER EXPLOSIVE LIMIT: 11.8
EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE-FOAM
FIRE FIGHTING PROCEDURES: CLOSE OR CONFINED QUARTERS REQ. BREATHING APP.
FIRE AND EXPLOSION HAZARDS: FIRE HAZARD BECAUSE OF LOW FLASH POINTS, HIGH VOLATILITY
TLV FOR THE MIXTURE: 200 PPM
EFFECTS OF OVEREXPOSURE: NAUSEA, DIZZINESS, HEADACHE, EYE IRRITATION,
EMERGENCY AND FIRST AID PROC.: VAPORS: REMOVE TO FRESH AIR LIQUID: WASH WITH WATER
REMOVE CLOTHES HAZARD: DECOMPOSITION PRODUCTS: CARBON DIOXIDE FROM PVC, CARBON MONOXIDE, HYDROGEN
CHLORIDE AZIDE, POLYMERIZATION OCCUR: WILL NOT OCCUR
COND. TO AVOID (INSTABILITY): KEEP FROM HEAT, SPARKS, OPEN FLAME
SPILL AND LEAK CONTROL: ELIMINATE IGNITION SOURCES, AVOID BREATHING VAPORS
WASTE ELIMINATION: INCINERATE MATERIAL FORM: LIQUID
MSDS NUMBER: M/00181-1 MSDS DATE: AUG 6, 1986 MFPA CODE: 333ACID
"""" TO HALT:
MSDS EXPOSE LIMIT: 250 PPM COLOR: CLEAR COLOR NUMBER: 0
SPECIAL LABELING: LABEL AS TO CONTENTS ROUTE OF EXPOSURE: INHALATION
SPECIAL TRAINING REQUIRED: NONE
SPECIAL/EARLY WARNING PROP.: LIGHTWEIGHTNESS
NEUTRALIZING AGENT: SODA ASH COMMON NAME: DEGREASING SOLVENT
FACILITY: PSYCHIATRIC
REMARKS: USE OF THIS MATERIAL IS RESTRICTED POSTED AREAS ANY OTHER USE
WILL RESULT IN DISCIPLINARY ACTION AND/"
WORK CONTROL DOCUMENT NUMBER: PI/10
WORK CONTROL DOCUMENT NAME: SAND BLASTING
WORK CONTROL DOCUMENT NUMBER: PI/123
WORK CONTROL DOCUMENT NAME: USE OF STANDARD SOLVENTS
WORK CONTROL DOCUMENT DATE: APR 1, 1985
CHRONIC TOXIC EFFECTS: NONE
RESPIRATORY PROTECTION: RESPIRATOR IN CONFINED SPACES
VENTILATION: NORMAL VENT. PREFERABLE PROTECTIVE GLOVES: RUBBER OR PVC
EYE PROTECTION: SAFETY GOGGLES
CAUSING TOXICITY: MAY CAUSE CANCER IN LABORATORY ANIMALS
TERATOGENICITY: NONE
C-INGREDIENTS: STODDARD SOLVENT IS AN INERT CARRIER
C-COLOR: THIS MATERIAL TURNS BLACK WHEN MIXED WITH PRODUCTS CONTAINING CHLORINE
APPENDIX F

EXAMPLES OF HMIS UPDATE REPORTS

F-1
APPENDIX F

The following reports contain references only to HMIS entries. Therefore, "Stock Number" refers to national stock number, "FSCM" refers to Federal Supply Code for Manufacturers, "PNI" is part number indicator, "Material Name" is trade name, and "vendor" is either manufacturer or distributor.
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