

Hazardous Substance Management System (HSMS)





Wh

Federal Agencies?

- Facilitate EPCRA reporting, as required by EO 13148
- Tracks the full life-cycle of hazardous materials and hazardous waste
- All materials and waste are process related
- Maintains a continuous, updated, chemical inventory
- Provides global visibility of all material, waste, and chemical inventories



EPCRA reporting

HSMS Release 2.4 [Local]

File Material Waste References Administrative Reports Window Help Hot Keys



FormR Report Criteria

Organization/Installation: FORT ELROY FORT ELROY ...

Print

Year: 2001

Entire Facility

Cancel

Revision

Base Commander Name:

Base Commander Title:

Commander Signature Date:

Report

Page 1 Page 2 Page 3 Page 4 Page 5

Source Reduction Activities

Is additional information on source reduction, recycling, or polluting control activities included in this report?

Display Chemicals meeting Reportable Quantities Only

	CAS	Chemical Name	PBT	Threshold Quantity	Meets Criteria	Manufactured
1	75-71-8	DICHLORODIFLUOROMETHANE (CFC-12)	<input checked="" type="checkbox"/>	25,000 / 25,000 / 10,000	<input checked="" type="checkbox"/>	
2	76-13-1	FREON 113 [ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-]	<input type="checkbox"/>	25,000 / 25,000 / 10,000	<input type="checkbox"/>	

Total Records: 2 Displayed Columns: 11 of 36



Tier II

HSMS Release 2.4.034 [Local] - [Tier Two]

File Material Waste References Administrative Reports Window Help

1 of 2 100%

Preview

Tier Two EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY <i>Specific Information by Chemical</i>	Facility Identification Name DYNAMAC / LSSC Street N00000 City BLDG M7-355 RM 3103 KENNEDY SPACE CENTER County BREVARD State FL Zip	Owner/Operator Name Name Street N00000 City BLDG M7-355 RM 3103 KENNEDY SPACE CENTER County BREVARD State
	FOR OFFICIAL USE ONLY	ID # Date Received

Important: Read all instructions before completing form Reporting Period : January 1 to December 31, 2002 Check if information below is identical to the information submitted last year

Chemical Description	Physical and Health Hazard:	Inventory
CAS 557-21-1 Trade Secret NO Chem. Name ZINCCYANIDE <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> EHS Stor. Press Temp Code Code Code Location (Non-confidential) Bldg, Floor, Rm, Des: B 1 4 1 1 B 1 4 15	<input checked="" type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic) <input type="checkbox"/> Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity	Max. Daily Amount (code) 04 Avg. Daily Amount (code) 04 No. of Days On-site 6
CAS 108-88-3 Trade Secret NO Chem. Name TOLUENE <input checked="" type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> EHS Stor. Press Temp Code Code Code Location (Non-confidential) Bldg, Floor, Rm, Des: B 1 4 1 1	<input checked="" type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic) <input checked="" type="checkbox"/> Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity <input checked="" type="checkbox"/> Irritant <input checked="" type="checkbox"/> Toxic	Max. Daily Amount (code) 04 Avg. Daily Amount (code) 05 No. of Days On-site 6



Form R

HSMS Release 2.4 B94 [Local] - [Form R: 108-88-9 TOLUENE]

File Material Waste References Administrative Reports Window Help

1 of 1+ 100%

Preview

(IMPORTANT: Type or print; read instructions before completing form) Form Approved OMB Number: 2070-0083 Approval expires 04/2000 Page 1 of 5

EPA **FORM R** TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

United States Environmental Protection Agency Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as the Title III of the Superfund Amendments and Reauthorization Act

WHERE TO SEND COMPLETED FORMS: 1. EPCRA Reporting Center PO Box 3348 Merrifield, VA 22116-3348 ATTN: TOXIC CHEMICAL RELEASE INVENTORY 2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART 1. FACILITY IDENTIFICATION INFORMATION

SECTION 1: REPORTING YEAR 2002

SECTION 2: TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?
 Yes (Answer question 2.2; Attach substantiation) No (Do not answer 2.2; Go to Section 3)

2.2 Is this copy Sanitized Unsanitized
(Answer only if "YES" in 2.1)

SECTION 3: CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Signature: Date Signed:

SECTION 4: FACILITY IDENTIFICATION

4.1

Facility or Establishment Name	TRI Facility ID Number
DYNAMAC	Facility or Establishment Name or Mailing Address(if different from street address)
Street N00000	Mailing Address
BLDG M7-355 RM 3103	Subreport:Page1
City/County/State/Zip Code	City/County/State/Zip Code

Start Microsoft O... Inbox - Mic... IM Business ... Microsoft P... HSMS Relea... 9:03 AM



Material Inventory

Receipt: New

Receive Components

Document Information

Document #: WV8K0U5CLASS1 Shipment: 1 Lot: 1

UPC: HSN: 8010-00H970005 AEROSOL, DEERE LT YELLOW, 12 OZ C

Lot Batch #: Shelf Life: 4 (12 MONTHS: EXTENDIBLE) Expiration Date: 25-Nov-2001

Unit of Issue: CH (CAN) Container: 12 OUNCE CAN Unit Issue Cost: \$2.75

MSDS: MID025 INDUSTRIAL YELLOW PAINT (AEROSOL), PT102 Qty. Ordered: 8

CAGE: 5L381 Mfr: KAR PRODUCTS IIC Qty. Outstanding: 8

Part #: YELLOW UOI Qty. Received: 6

Received By: HSMSMGR HSMS MANAGER, HSMS MANAGER Date Received: 19-Aug-2001

Material Information

Alias: Material Class: A VIRGIII/NEW

Process: ST0101-STG STORAGE

Location: 10 377 HAZMART

ID	Building	Floor	Room	Location Description
10	377			HAZMART

Print

Print Barcode for Items Print Barcode for Components Packing Label Print Hard Copy

Save Cancel



Material Life Cycle

HSMS Release 2.4 [Local] - [Inventory List]

File Material Waste References Administrative Reports Window Help Hot Keys



	Barcode	HSN	Ship	Lot	Serialized	Comp	Lot/Batch Num	Quantity On Hand	Quantity Issued	Quantity Available	Unit of Usage	Material Class	Quantity Intransit	Issued to ID	Issued To
1	18	6850-004059385	1	1	<input checked="" type="checkbox"/>	1		90	0	90	16 OZ CY	A			
2	18	6850-004059385	1	1	<input type="checkbox"/>	1					CY	A		LFUSSELL	FUSSELL, LA
3	18	6850-004059385	1	1	<input type="checkbox"/>	1					CY	R			
4	15	6850-004059385	1	1	<input type="checkbox"/>	1					CY	A		HSMSMGR	HSMS MANA
5	15	6850-004059385	1	1	<input type="checkbox"/>	1					CY	A		DSHORE	SHORE, DEN
6	16	6850-004059385	1	1	<input type="checkbox"/>	1					CY	A		HSMSMGR	HSMS MANA
7	16	6850-004059385	1	1	<input type="checkbox"/>	1					CY	A		DSHORE	SHORE, DEN
8	17	6850-004059385	1	1	<input type="checkbox"/>	1					CY	A		HSMSMGR	HSMS MANA
9	17	6850-004059385	1	1	<input type="checkbox"/>	1		2	2	0	16 OZ CY	A		DSHORE	SHORE, DEN
10	7	6850-004059385	1	1	<input type="checkbox"/>	1		6	0	6	16 OZ CY			HSMSMGR	HSMS MANA
11	8	6850-004059385	1	1	<input type="checkbox"/>	1		6	0	6	16 OZ CY			HSMSMGR	HSMS MANA
12	9	6850-004059385	1	1	<input type="checkbox"/>	1		3	0	3	16 OZ CY			HSMSMGR	HSMS MANA
13	9	6850-004059385	1	1	<input type="checkbox"/>	1		0.5	0.5	0	16 OZ CY			SBLACK	BLACK, SHE
14	10	6850-004059385	1	1	<input type="checkbox"/>	1		2	0	2	16 OZ CY			HSMSMGR	HSMS MANA
15	11	6850-004059385	1	1	<input type="checkbox"/>	1		6	0	6	16 OZ CY			HSMSMGR	HSMS MANA
16	12	6850-004059385	1	1	<input type="checkbox"/>	1		6	0	6	16 OZ CY			HSMSMGR	HSMS MANA
17	13	6850-004059385	1	1	<input type="checkbox"/>	1		6	0	6	16 OZ CY	A		HSMSMGR	HSMS MANA
18	14	6850-004059385	1	1	<input type="checkbox"/>	1		8	0	8	16 OZ CY	A		HSMSMGR	HSMS MANA

- Issue
- Disposition
- Change Location
- Transfer Confirmation
- Transfer Material Off-site
- Inventory Adjustment
- Update Expiration Date
- Breakdown Kits
- Decant Material
- View MSDS
- Reprint Barcodes
- Reprint Issue Report(s)
- Document Transaction History

Total Records: 28 Displayed Columns: 29 of 37



Waste Container Inventory

Container Information: PAINTCANS1

Chemicals

Samples

PCBs

Disposition

Consolidations

Container Information

Shipping Info/Cost

Dates

Transaction History

Waste Characterization

Save

Cancel

Container ID: PAINTCANS1

Status: U - III USE

Size: 55 UOM: GL GALLON

DOT Container Code: 1A2 STEEL DRUMS,

Waste Weight: 25 lbs

Total Weight: lbs

Volume: UOM:

Accumulation Container

Original Material Container

Comments:



Waste Life Cycle

HSMS Release 2.4 [Local] - [Container Inventory]

File Material Waste References Administrative Reports Window Help Hot Keys



	Barcode	Status	Size	UOM	DOT Cntr Code	Waste Weight	Total Weight	Accumulation Container	Original Material	Start Date	90-day Storage Date	TSDF Storage Date	Fill Date	D
1	AMONCLN01	IN USE	5	GL	1H1	3		<input type="checkbox"/>	<input type="checkbox"/>	19-Aug-2001				
2	OILSWEEP01	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
3	PAINTCANS1	IN USE	55	GL	1A2	25		<input type="checkbox"/>	<input type="checkbox"/>	02-May-2001				
4	W34H99001	READY FOR ISSUE	55	GL	1A2	0	0	<input type="checkbox"/>	<input type="checkbox"/>					
5	W34H99002	READY FOR ISSUE	55	GL	1A2	0	0	<input type="checkbox"/>	<input type="checkbox"/>					
6	W34H99003	READY FOR ISSUE	55	GL	1A2	0	0	<input type="checkbox"/>	<input type="checkbox"/>					
7	W34H99004	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
8	W34H99005	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
9	W34H99006	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
10	W34H99007	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
11	W34H99008	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
12	W34H99009	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
13	W34H99010	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
14	W34H99011	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
15	W34H99012	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
16	W34H99013	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
17	W34H99014	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
18	W34H99015	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
19	W34H99016	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
20	W34H99017	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
21	W34H99018	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
22	W34H99019	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
23	W34H99020	READY FOR ISSUE	55	GL	1A2			<input type="checkbox"/>	<input type="checkbox"/>					
24	W34H99021	READY FOR ISSUE	55	GL	1A2	0	0	<input type="checkbox"/>	<input type="checkbox"/>					
25	W34H99022	READY FOR ISSUE	55	GL	1A2	0	0	<input type="checkbox"/>	<input type="checkbox"/>					
26	W34H99023	READY FOR ISSUE	55	GL	1A2	0	0	<input type="checkbox"/>	<input type="checkbox"/>					
27	W34H99024	READY FOR ISSUE	55	GL	1A2	0	0	<input type="checkbox"/>	<input type="checkbox"/>					
28	W34H99025	READY FOR ISSUE	55	GL	1A2	0	0	<input type="checkbox"/>	<input type="checkbox"/>					

- Close
- Disposition
- Store
- Recycle
- Reopen
- Pickup Request
- Overpack
- Consolidate
- Deconsolidate
- Sample
- Change Location
- Change Status
- Correct Waste Characterizations
- Container Info/History
- Reprint Barcodes

Total Records: 28 Displayed Columns: 20 of 23



Ch

HSMS Release 2.4 [Local] - [CAS: 75-71-8 - DICHLORODIFLUOROMETHANE (CFC-12)]

File Material Waste References Administrative Reports Window Help Hot Keys



Chemical Abstract

Health Categories

Alternate Names

Chemical Groups

Regulatory Lists

Associated MSDSs

Organization Chemicals

Source Reduction

	Year	UIC/DoDAAC	Organization	Current Weight On Hand	Total Weight Used	Max Weight	Max Weight Date	Exceed TPO	Exceed TPO in year	Days Onsite
1	2001	W8KOU5	FORT ELROY	15.50	0.50	16.00	16-Apr-2001	<input type="checkbox"/>	<input type="checkbox"/>	20
2	2000	W8KOU5	FORT ELROY	18.00				<input type="checkbox"/>	<input type="checkbox"/>	

Save

Cancel



192 of 2921



Total Records: 2 Displayed Columns: 10 of 34



Supports compliance with other initiatives

- Safety and Health (OSHA)
- Pollution Prevention (P2)
- Resource Conservation and Recovery Act (RCRA)
- Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)
- Munitions (including disposal)
- Clean Air and Water Acts (CAA & CWA)



Process Information

Site-specific Process: ID0507-ACP

Waste Association Algorithms by Chemical State Algorithms by CAS

Training Required Equipment Required Regulation(s) Permit(s) Weapon System(s)

Process Monitoring Aliases Material(s) within Process Material Substitutes

Generic Process: ID0507 ... INDUSTRIAL, PAINTING, SPRAY- AEROSOL CAN

ID: ACP

Name: PAINTING, AEROSOL CAN

Work Center: DPWPNT ... DPW PAINT SHOP

Location: 7 126 DPW PAINT SHOP ...

ID	Building	Floor	Room	Location Description

Date Created:

Respondent: LHANNIGA ... HANNIGAN, LINDA

Technical POC: LHANNIGA ... HANNIGAN, LINDA

Occurrence Count for Job:

Authorization:

Save Cancel

3 of 16



Algorithm

Site-specific Process: ID0501-SPR

Training Required Equipment Required Regulation(s) Permit(s) Weapon System(s)

Process Monitoring Aliases Material(s) within Process Material Substitutes

Waste Association **Algorithms by Chemical State** Algorithms by CAS

	Percent	Form-R
1 Solid		3.2C
Activities and Uses:		
Air Non-point:	3.00	5.1
Air Point:		N/A
Land Onsite:		N/A
To Product:	45.00	
POTW:		N/A
Waste:	52.00	8.7
Total:	100.00	

Valid Data Record

Hydrographic Feature	Percent
no Hydrographic Features listed	

2 of 16



Multiple Facility Tracking

- HSMS capable of tracking one or more installations in a single database
- Allows connectivity using trusted domains across Wide Area Network
- Facilitates regional implementations



Interfaces

- HSMS implements interfaces to external systems
 - Hazardous Material Information Resource System
 - Logistics Interface Utility
 - DRMS Automated Information System



Hazardous Material Information Resource System (HMIRS) Interface

- Connection is made to the on-line database at DLIS, Battle Creek
- Queries are similar to those on CD-ROM
- Data retrieved from HMIRS and may be used to populate MSDS records in HSMS, including chemical constituents



HMIRS Search Parameters

FSC:

HMIR:

CAGE:

*Company Name:

*Product Tradename:

*HMIRS MSDS ID: * Wildcard (%) allowed



Logistics Interface Utility

- Imports information from Army logistics systems
 - SARSS
 - IFS / Supply 2000
- Supports 7 transactions, including receipts, inventory adjustments, issues, returns

Select Transactions to Process

Requests Receipts Issues Turn-ins Decreases Increases Cancellations

Close

Edited	Document Nbr	NSN	Unit of Issue	Qty
<input checked="" type="checkbox"/>	WK4GA11001A002	6850004059385	CY	1
<input type="checkbox"/>	WK4GA11001A003	6850004059385	CY	1
<input type="checkbox"/>	WK4GA19350A001	6850004059385	CY	5
<input type="checkbox"/>	WK4GA19350A002	6850004059385	CY	1



DRMS Automated Information System (DAISY) Interface

- Electronic transfer to DRMS of DD1348 waste information, including waste containers and waste profiles
- Electronic import of manifest and delivery order information



DD1348

Filter For...
 Active Filter

	DD1348 ID	Material Condition	Number of Containers	Total Price	Total Container Cost	Quantity Material
1	WSKOUS-1206-0001			547.80	\$0.00	

- View
- Edit
- New
- Replicate
- Delete
- Print DD1348
- Export DD1348

Total Records: 1 Displayed Columns: 8 of 8



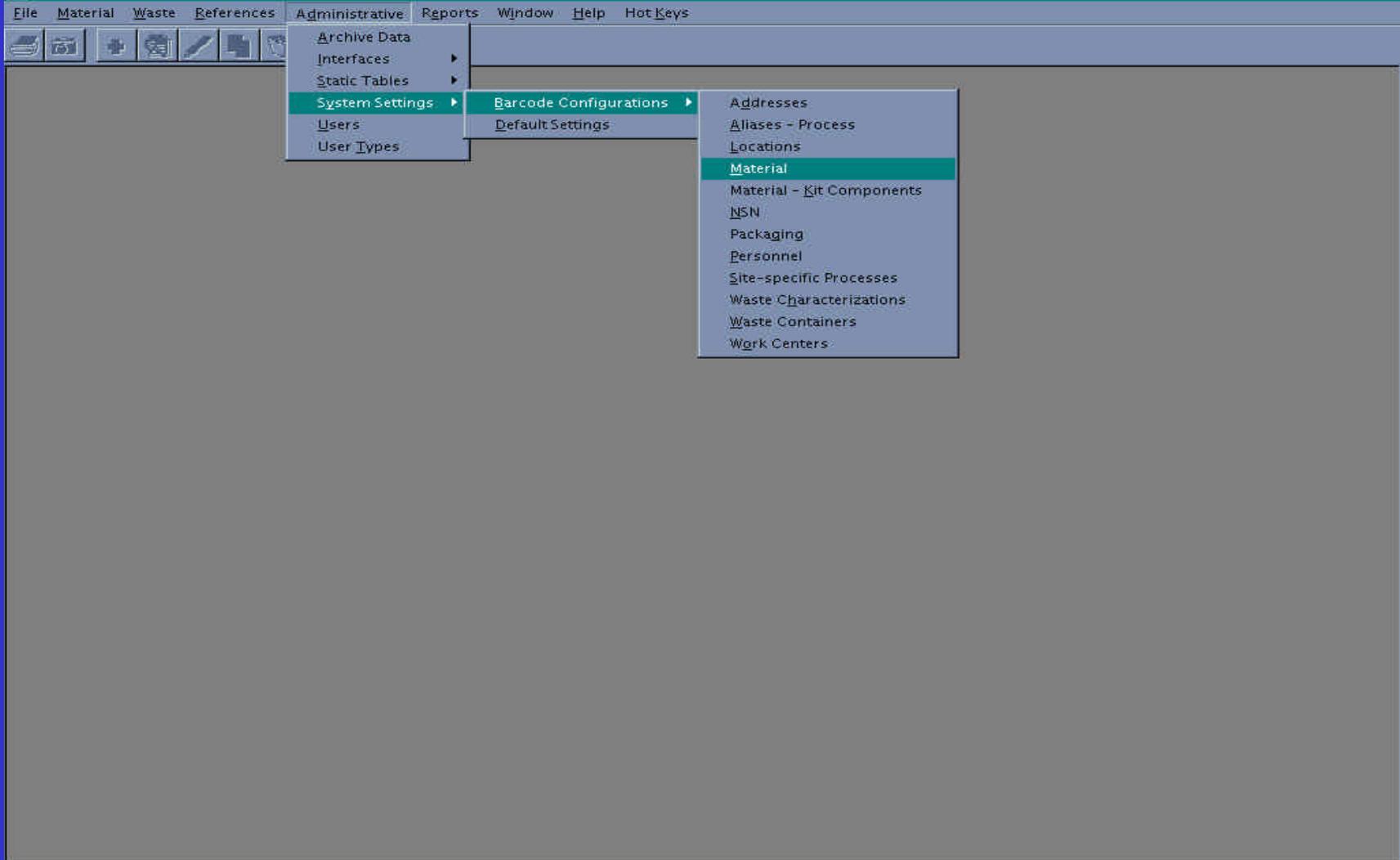
Defense Data Dictionary Compliant

DITSCAP Certification

Barcodes are h configurable



HSMS Release 2.4 [Local]





Material Barcode Setup

Font: Barcode Height: mm Data Values in Bold

Font Size: Barcode Line Width: mm Labels in Bold

	Position 1	Position 2	Position 3	Position 4	Posi -
Row 1	NSN:				
Row 2	DOC:	SHP:	LOT:	SFX:	
Row 3	COND:	EXP:			
Row 4	CAGE:	MSDS:	DISP:		
Row 5		5			
Row 6					
Row 7					
Row 8					
Row 9					
Row 10					
Row 11					



Administrative Module

- Allows the HSMS system/database manager to manage user-access rights to all functions
- Each function can be assigned up to 5 levels of access
- System and user settings



Personnel

Work Centers

Courses

Equipment

Hazardous Material

HSMS Access

Login ID:

New Password:

Password Verification:

Menu Item	Visible	Edit	New	Replicate	Delete
<input type="checkbox"/> Material	<input checked="" type="checkbox"/>				
Anticipated Receipts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Assemble Kit	<input checked="" type="checkbox"/>				
Inventory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/> Receipts	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Issue Exceptions	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
TPQ Exceptions	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
AUL Exceptions	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
Remote Barcode Processing	<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> Waste	<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> References	<input checked="" type="checkbox"/>				
<input type="checkbox"/> Administrative	<input checked="" type="checkbox"/>				
Archive Data	<input checked="" type="checkbox"/>				
<input type="checkbox"/> Interfaces	<input checked="" type="checkbox"/>				
HMS	<input type="checkbox"/>				
LIU	<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> Static Tables	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
<input checked="" type="checkbox"/> System Settings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Users	<input checked="" type="checkbox"/>				
User Types	<input checked="" type="checkbox"/>				
<input checked="" type="checkbox"/> Reports	<input checked="" type="checkbox"/>				

Save

Cancel

2 of 2

System Default Settings

Personnel

Material

Waste

Save

Cancel

Default Material Class Code:

A ▾ VIRGIN/IEW

- Set New Locations as Receiving Locations
- Autogenerate MSDS IDs
- HSIs marked as serialized by default
- Transactions cannot occur after AUL Exception Warnings
- Transactions cannot occur after Issue Exception Warnings
- Turn off Chemical Hazard Exception Warnings
- Restrict transactions by Work Center
- Restrict transactions by Organization
- Users cannot change their passwords
- Require entry of disposition of used material containers



User Defaults

Material Waste Display

Default Receiving Location: 10 377 HAZMART ...

ID	Building	Floor	Room	Location Description
ST0101-STG				STORAGE

Storage Process for Uncommitted Material: ... STORAGE

- Print Item Barcodes for Receipts
- Print Component Barcodes for Receipts
- Print Packing Label for Receipts
- Print Hard Copy for Receipts # of Hard Copies: 1
- Print Item Barcodes for Issue
- Print Component Barcodes for Issue
- Print Hard Copy Now for Issue # of Hard Copies: 1
- Print Hard Copy Later for Issue
- Print Hard Copy Now for Disposition # of Hard Copies: 1
- Print Hard Copy Later for Disposition

Save
Cancel