

# Logistics Product Data for Hazardous Material Tracking



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#### **AGENDA**



- Environment, Safety, and Occupational Health (ESOH) Requirements
- Product Support Analysis
- Logistics Product Data (LPD) Elements
- LSA 078 Hazardous Material Report
- Value of Accurate LPD
- Take Aways



## **ESOH REQUIREMENTS**





- Eliminate ESOH hazards
- Identify use of HMs, wastes and pollutants
- Plans for minimization and safe disposal

#### **Engineering:**

 Design ESOH risks out of system

### Logistics:

- Analyze ESOH constraints during Product Support Analysis (PSA)
- Capture ESOH information in Logistics Product Data





**Aerospace Industries Association National Aerospace** Standard (NAS) 411 **Hazardous Materials Management Program Standard Practice** 

**Aerospace Industries** Association National Aerospace Standard (NAS) 411-1 **Hazardous Materials Target List Standard Practice** 



**Tech America** Standard

**Product Support Analysis** 

**TA-STD-0017** 

Tech America **Engineering Bulletin** 

**Logistics Product Data Reports** Handbook

TA-HB-0007-1



### **HISTORY of PSA**



## LSA

LMI

LMI

**LPD** 

**PSA** 

MIL-STD-1388

MIL-PRF-49506



MIL-HDBK-502



GEIA-STD/HB-0007



MIL-HDBK-502A

**2013 - Present** 

Product Support Analysis

1983 - 1996

Logistics
Support
Analysis

1997 - 2013

Acquisition Logistics

1996 - 2011

Logistics
Management
Information

2008 - Present

Logistics Product Data



### **CURRENT PSA GUIDANCE**



# Tech America Standard

Logistics Product
Data

GEIA-STD-0007-B

- Defines LPD generated during requirements definition and design of an industry or government system
- Makes use of Extensible
   Markup Language (XML)
   format using entities and
   attributes that comprise LPD
   and their definitions
- Over 1,000 data elements and growing



## **CURRENT PSA GUIDANCE**



**SAE International GEIA-HB-0007 LPD Handbook** 

Contains the HOW PRODUCT SUPPORT ANALYSIS

Addresses the overall **Product Support Analysis** (PSA) process

Offers guidance on TA-STD-0017, PSA activities as an integral part of the overall systems engineering process

contains the WHAT

Tech America **Standard** 

**Product Support Analysis** 

**TA-STD-0017** 

Defines analysis required to define the support system for new products, systems and end items.

**Tech America Engineering Bulletin** 

**Logistics Product Data Reports** Handbook

TA-HB-0007-1

Provides set of standardized reports that can be generated from the LPD elements

Should coordinate PSA tasks with activities from other standards (e.g. MIL-STD-882, NAS 411)



## **ESOH ACTIVITIES IN 502A**



7.1 - Identify
Potential Technology
...potential for reducing
environmental impact and
improving safety...

9.5 - Failure Modes,
Effects and Criticality
Analysis
...identify likely failure modes
....environmental impacts,
health hazards, and system
safety...

11 - Evaluation of alternatives and tradeoff analysis ...balance risk, cost, environmental impact...consider energy tradeoffs...

12 - Task Analysis
Identify environmental
impacts of the task...use of
hazardous materials,
generation of hazardous
waste, and release of air
and water pollutants

#### 16 - Disposal Analysis

"...Identify disposal/demilitarization procedures associated with system/end item, including ...parts and materials that contain hazardous materials, wastes and pollutants. Additionally identify those items that can be recycled, reused, or salvaged...

#### Others

4.1 - Use Study

6 - Comparative Analysis

etc....



GEIA-STD-0007-B



- Some of the current "HAZMAT" data elements include:
  - Source, Maintenance & Recoverability Code (SM&R)
  - Special Material Content Code (SMCC)
  - Demilitarization Code (DEMIL)
  - Hazardous Code
  - Precious Metals Indicator Code (PMIC)
  - Material and Material Weight Fields
  - Narrative Fields

NOTE: Additional codes and information are added to the Federal Logistics Information System (FLIS) during provisioning/cataloging: Hazardous Material Indicator Code (HMIC), Hazardous Characteristics Code (HCC), Federal Supply Class (FSC), Master Requirement Codes (MRC), etc.



#### **SM&R CODE**



- Source, Maintenance & Recoverability Code (SM&R)
  - Used to communicate maintenance and supply instructions
  - Assigned early during PSA

Positions:

3

5

6



Recoverability

Code

Service

Source Code

How you get an item

Maintenance Code

3<sup>rd</sup> position – Who can remove and replace the

Who is authorized to dispose of the item

**Option** Code

4<sup>th</sup> position – Can item be repaired and if so,

by whom

item







# DoD 4100.39-M Volume 10 FLIS Procedures Manual Table 102 – Special Material Content Code (SMCC)

Item contains peculiar material requiring special treatment or management control

CODE	EXPLANATION
Α	MEDICAL ITEMS (DRUG/NARCOTICS/ANTIBIOTICS/MEDICAL KITS) (SEE NOTE 1)
В	FLAMMABLE COMPRESSED GAS
С	CORROSIVE SOLIDS/CORROSIVE LIQUID (OTHER THAN ACID)
D	ALCOHOL (ETHANOL, ETHYL ALCOHOL, OR GRAIN ALCOHOL ONLY)
E	PRECIOUS METALS
F	FLAMMABLE LIQUIDS FLASH POINT NOT MORE THAN 60 DEGREE C (140 DEGREE F)
G	COMBUSTIBLE LIQUIDS FLASH POINT 60 DEGREE C (140 DEGREE F) TO 93 DEGREE C (200 DEGREE F))
н	PCB (ITEM CONTAINS POLYCHLORINATED BIPHENYLS)
1	(AEROSOLS) A NON-REFILLABLE RECEPTACLE WITH COMPRESSED GAS AND A SELF-CLOSING RELEASE DEVICE. CONSULT MSDS AND LABELS
J	OXIDIZING MATERIAL
K	ORGANIC PEROXIDES
L	OTHER REGULATED MATERIALS (O, R, M) OR CLASS 9 (MISCELLANEOUS HAZARDOUS MATERIALS)
M	MAGNETIC MATERIAL
N	ASBESTOS (ITEM CAPABLE OF EMITTING ASBESTOS DUST/FIBERS)
О	(OFF-GASSING CONSIDERATIONS). OFF GAS FROM THE ITEM IS HAZARDOUS ABOARD SUBMARINES
Р	POISON (INCLUDING METHANOL, WOOD ALCOHOL, AND DENATURED ALCOHOL)
Q	EXPLOSIVE NON-ORDNANCE ITEMS
R	RADIOACTIVE MATERIAL
S	OILS/PETROLEUM PRODUCTS (NOT OTHERWISE SPECIFIED)
Т	TOXIC (SEE NOTE 1)
U	MERCURY (ITEMS CONTAINING MERCURY) FOLLOW ESTABLISHED MERCURY CONTROL AND ABATEMENT PROGRAMS
V	ACID
W	NONFLAMMABLE COMPRESSED GAS
X	RADIOACTIVE AND MAGNETIC MATERIAL
Υ	NON-MAGNETIC (MUST REMAIN FREE OF STRONG MAGNETIC FIELD)
Z	FLAMMABLE SOLIDS
1	ITEM NOT MANAGED IN HAZMINCEN. MAY NEED SPECIAL HANDLING AT DEMIL/DISPOSAL DUE TO HAZMAT OR STRATEGIC/CRITICAL MATERIA
2	ELECTROSTATIC DISCHARGE (ESD)/ELECTROMAGNETIC (EM) SENSITIVE ITEM
3	ELECTROSTATIC DISCHARGE (ESD)/SENSITIVE ITEM
4	ELECTROMAGNETIC (EM) SENSITIVE ITEM
5	HAZARDOUS MATERIAL (NON-SPECIFIED), ITEMS UNIQUE FORMULATIONS MAY PRODUCE DIFFERENT HAZARDOUS CLASSES.
6	EXPLOSIVES ORDNANCE ITEMS
7	DANGEROUS WHEN WET MATERIAL
8	SPONTANEOUSLY COMBUSTIBLE MATERIAL
9	NON-HAZARDOUS OR NON-SENSITIVE ITEM, DOES NOT REQUIRE HAZARDOUS OR SPECIAL HANDLING, PACKAGING OR PRECAUTIONS
0	RESERVED



#### **DEMILTARIZATION CODE**





#### DEPARTMENT OF DEFENSE

DEMILITARIZATION/TSC PROGRAM OFFICES 8725 JOHN J. KINGMAN ROAD FORT BELVOIR, VIRGINIA 22060-6221

J334

Dec 5, 2015

DOD DEMIL PROGRAM GUIDANCE ON DEMIL CODING

SUBJECT: DEMIL CODE F ASSIGNMENT TO DEMIL REQUIRED PROPERTY CONTAINING ENVIRONMENT, SAFETY AND OCCUPATIONAL HEALTH HAZARDS

#### REFERENCES:

- (a) DoD Instruction 4160.28, DoD Demilitarization (DEMIL) Program, April 7, 2011
- (b) DoD Manual 4160.28, Defense Demilitarization Manual, 7 Jun 2011
- (c) FLIS Procedures Manual DOD 4100.39M, Volume 10
- (d) FLIS Procedures Manual DoD 4100.39M, Volume 3
- This clarification document is intended for the military services and DLA to help
  delineate the use of the DEMIL-F code. Reference (a) sets the policy for the DoD
  Demilitarization (DEMIL) Program. Reference (b) Vol 2 provides the procedures for
  DEMIL coding and requires DEMIL-F be assigned to United States Munition Listed
  (USML) items that require demilitarization AND present an environment, safety, or
  occupational health (ESOH) hazard.
- 2. DEMIL-F is assigned to DEMIL required property that presents ESOH hazards as a result of DEMIL actions and is not to be used for the sole purpose of indicating that a hazardous material, precious metal or strategic/critical material is within an item of supply. DEMIL-F indicates the USML item has instructions describing the special handling required before turn-in by the military service to a DLA Disposition Services facility or provides specific instructions to the activity performing the DEMIL on how to properly and safely destroy the equipment. Once instructions have been completed and documented, then the item will be demilitarized in accordance with all DEMIL policy and procedures.
- 3. National Stock Numbers (NSNs) has other data fields that catalogers can use to indicate precious metal or rare earth material within the item of supply. The Precious Metals Indicator Code (PMIC) is to identify items that have precious metals as part of their content. Precious metals (PM) are those metals generally considered to be uncommon and highly valuable which are relatively superior in certain properties such as resistance to corrosion and electrical conductivity. See reference (c) Table 160.

 Dec 2015 memo provides guidance on assignment of DEMIL-F code



#### GEIA-STD-0007-B



- Hazardous Code
  - Used by Packaging, Storage and Transportation (PHS&T)
  - Items regulated by 49 CFR
- Precious Metals Indicator Code (PMIC)
  - Gold, Silver, Platinum
- Material and Material Weight Fields
  - Captures material (narrative field) and material weight information
- Narrative Fields
  - Used to capture Warnings, Cautions & Notes
  - Could also capture special disposal information



#### **FUTURE PSA GUIDANCE**

#### **TA-HB-0007-1 Update**



# Tech America Engineering Bulletin

# Logistics Product Data Reports Handbook

TA-HB-0007-1

- Currently being updated by Life Cycle Logistics Supportability (LCLS) Committee
- LCLS Meeting in Sept 2015 voted to update LSA-078 Report
- New report does a better job of identifying all hazardous materials associated with a system
- Good News most programs already buying most of these data elements for other LPD Reports – provisioning, maintenance plan, etc.



#### **FUTURE PSA GUIDANCE**

#### GEIA-STD-0007-C



- New "HAZ" Entity being added in next update
- Improves collection of hazardous materials in articles/end items

LPD ELEMENT	DEFINITION
Substance Name	Name of the hazardous substance
Substance Identification	Chemical Abstracts Service Registry Number
Substance Mass Minimum	This field identifies the inclusive lower limit of the hazardous substance in the part when mass is expressed as a range
Substance Mass Maximum	This field identifies the inclusive upper limit of the hazardous substance in the part when mass is expressed as a range
Substance Mass Nominal	This field identifies the nominal mass of the hazardous substance in the part which is a defined value that may not correspond exactly to the actual value because manufacturing processes result in small variations
Substance Mass Unit of Measure	This field identifies the unit of measure for the substance mass: milligrams, grams, or kilograms
Substance Mass Percent	Calculated Value
Chemical Category	Chemicals with shared chemical and toxicological properties which are grouped into categories. E.g. "cyanide compounds," "lead compounds", etc.
Hazardous Materials Target List Category	The hazardous material category of "Prohibited", "Restricted", or "Tracked", as identified in the contract



## **TA-HB-0007-1A**

#### PROPOSED LSA 078: Header Info and Part 1



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# **TA-HB-0007-1A**DRAFT LSA 078: 2



SAE INTERNATIONAL TA-HB-0007-1A Page 332 of 374

PART II - HAZARDOUS MATERIALS USED IN OPERATIONS AND MAINTENANCE OF THE END ITEM

	•												
						90.hmplcas	:		ex.ebl	flife		(sc.propro	7E-X)
CAGE REF	ERENCE NU	MBER ITE	EM NAME	FSC	NIIN	HMTL	SMR	SMCC	SLC	UM	UI	UI	CURR
					0	ATEGO	RY					PRICE	CODE
81349 MIL	-DTL-1679	91 TY2 DET	TERGENT, GENERAL	PURPOSE 7930	00531971	.5 T	PHOZA (M)	5	7	GL	GL	18.18	USD
		an antonobed											
Cr.len	Cr.alc	Cr. takptakci	Ca. taskid		CI.qiyp	EFER CA.	gryptaun Ca.tek	rrag DX.TAA	narno		gryparta MPUTEI		TAL QT
LCN	ALC	TASK CODE	TASK IDENTIFICA	TION	QTY/I	ASK	UM TASE	FREQ	MB	QU	ANTITY	Y RI	ECOMMENI
0181001	00	ABONCAA	INSPECT 7 DAY (	CLEAN)	000.5	0	GL 0052	.0000	0	00	00026.	.0 0	0026
0181001	00	CKONCAA	TOUCH UP PAINTE	D ALUMINUM	001.5	0	GL 0000	.6670	0	00	00001.	.0 0	0001
								TO	TAL C	UANTII	Y REC	COMMENDE	D: 27

CAGE	REFERENCE NUMBER	ITEM NAME	FSC	NIIN HM	TL SMR	SMCC	SLC	им и	I UI PRICE	CURR
81349	MIL-DTL-81706 TY1CL1AFM3MED	CORROSION RESISTANT COAT	~~~~~~			d) J	6	PT CN	31.66	USD
LCN	ALC TASK C	ODE TASK IDENTIFICATION		QTY/TASK	UM TAS	K FREQ	МВ	COMPU		TAL QTY
00102	00 CKONCA	A TOUCH UP PAINTED ALU	M SURFACES	00.75	CN 000	4.0000	0	0003.	00 3	
00104	00 CKONCA	A TOUCH UP PAINTED ALU	M SURFACES	00.75	CN 000	04.0000	0	0003.	00 3	

Figure 43 - Format for Hazardous Materials Report (LSA-078)

TOTAL QUANTITY RECOMMENDED: 6 CN



#### LPD and MIL-STD-882E Task 108



#### MIL-STD-882E

support equipment or planned for system operation or support. The minimum data elements required for HAZMAT tracking and reporting will include:

- a. HAZMAT item or substance name.
- b. HAZMAT Category (prohibited, restricted, or tracked).
- c. Special Material Content Code (SMCC) as designated in DoD 4100.39-M, Volume 10.
- d. Location of HAZMAT within the system. -
- e. Quantity of HAZMAT within the system with traceability, as applicable, to version specific hardware designs.
- f. Application, process, or activity whereby quantities of HAZMAT are embedded in the system, or used during operations, and support of the system.
- g. Reasonably anticipated HAZMAT (whether categorized or not) generated during the system's life-cycle (e.g., installation, Government test and evaluation, normal use, and maintenance or repair of the system).
- h. Reasonably anticipated HAZMAT (whether categorized or not) generated during mishap occurence.
- Special HAZMAT control, training, handling measures, and Personal Protective Equipment (PPE) needed, including provision of required Material Safety Data Sheets (MSDSs).

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#### **LPD Element**

→ Hazardous Substance Name

→ HMTL Category

➤ SMCC

➤ End Item Acronym Code, Item Name, Line Control Number

Substance Mass

Task Code, Task Identification

Narrative Fields



# PINPOINT - SMART



Pin Point	Strategic Material Assessment and Response Tool	ю
National Stock Number (NSN) Information  NSN or NIIN Search &Lookup	Create NSN Batch   Manage NSN Batches   Create Part Number Batch   Manage Part Number Batches   Material Search	
Search by Product Characteristics: With INC/FSC/FSG filters or without filters     Batch Query	User Batch:  - Select NSN or Part Number Batch - ✓ - or -	
Keyword Search	wspc:	
Keywords	- or -	
Commercial And Government Entity (CAGE) Information	Material Lists REACH ROHS EPA DOD D	
Part Information	submit	
Part Number  Batch Query  Strategic Material Assessment and Response Tool (SMART)  FedBizOpps (FBO) Information/Subscriptions	Pin Point provides users with technical and logistics information about Items of Supply. Contains information from	
	more than 20 different databases.	
Privacy Statemen	nt隋 Terms of Use淸 508 Compliance퉈 Feedback퉈 Plug-ins퉈	
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# **SMARTS Query**



 Example query for a Weapon System identifying all parts associated with that system catalogued with HAZMAT information

SMART Material Dat	SMART Material Data									
Product ID	Company Name	NSN	Status Code	Material	CAS Number	% Weight	Reach	RoHS	EPA Priority List	DoD Emerging Contaminants
000-060-005	KORRY ELECTRONICS CO	5310005784963	ō	CADMIUM	7440-43-9	null	yes	yes	yes	no
010726024	SERVO CORPORATION OF AMERICA	5905002038734	o	LEAD	7439-92-1	null	no	yes	yes	yes
012-1003-00	ALCATEL USA INC.	5325008235639	o	CADMIUM	7440-43-9	null	yes	yes	yes	no
012-1003-000	ROCKWELL COLLINS, INC.	2325008235639	O	CADMIUM	7440-43-9	null	yes	yes	yes	no
015005	FASTENAL COMPANY	5305014972200	0	ZINC CHROMATE	13530-65-9	null	no	no	no	yes
018-001468-002	NORTHROP GRUMMAN SYSTEMS CORPORATION	5999010810914	0	Beryllium	7440-41-7	null	no	no	no	yes
0774-3005	ENERSYS ENERGY PRODUCTS INC.	6140011318104	O	Lead tetraoxide	1314-41-6	null	yes	no	no	no
0980162011	SAAB AB,TRAINING AND SIMULATION	5975009032284	O	MERCURY	7439-97-6	null	no	yes	yes	no
0N064104-1	NATIONAL SECURITY AGENCY	5935010769451	O	CADMIUM	7440-43-9	null	yes	yes	yes	no
0N279200-7	NATIONAL SECURITY AGENCY	5999009615838	0	BERYLLIUM	7440-41-7	null	no	no	no	yes

FLIS: Technical Characteristics NSN: 5310-00-578-4963 [WSIT]							
MRC △♥	MRC Name △▽	MRC Value △▽					
AAUB	HOLE DIAMETER	0.125 INCHES NOMINAL					
ABKV	OUTSIDE DIAMETER	0.195 INCHES NOMINAL					
ABPX	MATERIAL THICKNESS	0.025 INCHES NOMINAL					
MATT	MATERIAL	STEEL OVERALL					
NAME	ITEM NAME	WASHER,LOCK					
SFTT	SURFACE TREATMENT	CADMIUM					
SFTT	SURFACE TREATMENT	CHROMATE OVERALL					
STYL	STYLE DESIGNATOR	SPLIT HELICAL-RIGHT HAND					



## **Env Log Issues- Example 1**



- Transportation problem
  - Radioactive label was removed from a package based on data fields in the Federal Logistics Information System (FLIS) that indicated the item was non-hazardous



Code	FLIS Data	Should be?
<b>DEMIL</b> Demilitarization	D	F
HCC Hazardous Characteristic Code	Blank	A2
SMCC Special Material Content Code	9	R or X

UN 2911- Radioactive, Excepted Package



## **Env Log Issues- Example 2**



- Potential compliance problem
  - OSH inspection identified lead contamination on workbench

Issue 1, February 2014

#### LEAD IN C-130 BRAKE ASSEMBLIES DOD INDUSTRIAL HYGIENE WORKING GROUP FACT SHEET

#### LEAD ALERT

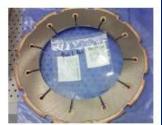
- Lead has been identified in C-130 aircraft brake assembly parts.
- Lead may not be identified by the manufacturer as part of the brake assembly composition in the safety data sheet (SDS)
- Workers may be potentially exposed to lead as a byproduct of their occupation. If exposure assessments have not been performed, they may be indicated.
- It is unknown at this time if other airframes may be affected.

#### POTENTIAL WORKPLACE HEALTH HAZARD

During an occupational health special assessment at a C-130 hydraulics shop, results of a total metal analysis of swip samples of two parts of the C-130 brake assembly identified lead contamination.

The airborne concentrations of lead measured during this brake assembly process were well below the OSHA permissible exposure limit of 50 µg/m² (8-bour time weighted average). However, the measured levels of lead dust on the workbench surface indicated a significant amount of contamination on the table that could pose a skin contact and ingestion hazard.

Follow-up swipe tests were conducted on new brake assembly parts removed directly from the packaging. Two rotor disks in the brake assembly were found to contain lead



Dash-1 rotor from C-130 brake assembly Part number 5012759; NSN 1630-01-464-



Regular Rotor from C-130 brake assembly Part number 9543031; NSN 1630-00-937-6602

Because lead was not listed as part of the brake assembly composition, the manufacturer was contacted. The manufacturer stated in a February 2013 email that the "sintered mix used on the referenced rotor disks contains approximately 2.5% lead. The lead is used as a friction modifier and lubricant/anti-seize additive. Lead is an acceptable material for this engineering application."

Workers were not aware of this hazard because lead was not listed in any Technical Order publications or hazardous material inventories for the hydraulics shop.

 Data fields in supply data indicated item was non-hazardous

Code	Supply Data	Should be?
SM&R Source, Maintenance & Recoverability	PAOZZ	PAOZA
<b>DEMIL</b> Demilitarization	В	F



## Env Log Issues – Example 3



- HAZMAT Supply Problems
  - HAZMAT NSNs not being established during initial provisioning/ and Design Change Notice (DCN) process

NSN	NOMIN	иом	MILSPEC/ PART NUMBER/ COMPANY
6810CMAG19	eldorodo mag kote #19	UNKOWN	
6810P40010	PUROGENE	GAL	BIO-CIDE, P40010
6810P5342022037	MPK LIQUID	GAL	
6850C1031	ACTIVATOR	BOTTLE	
6850C1046	ANODIZE & HARD COAT STRIPPING	JAR	
6850C19561	IMMERSION LIQUID	UNKOWN	
6850C1320A	AK-225G PRESATURATED WIPER	CANISTER	
6850C7002C	7002C FUEL TANK ADHESIVE	KIT	
6850CD201	DESSICANT POUCHES	5 GAL	S-2854, S-11204
6850CSON0774	WETTING AGENT	UNKOWN	
7930C365	FAST 365 (TENNANT SOLUTION)	BOX	
7930C4171	COIL CLEANER	BOTTLE	
8010CF20218	DESOTHANE HS ACTIVATOR	GAL	
8010CFM11206	PAINT POLY CLEAR	KIT	MIL-PRF-85285D, FLAT CLEAR POLY
8010CFM11428	PAINT ACFT GRAY LT GLOSS	KIT	MIL-PRF-85285D, GRAY
8010CFM 11612	PAINT ACFT INT WHITE FLT	KIT	MIL-PRF-85285D, COLOR CODE #37855
8010CFM12600	PAINT, ACFT INTERIOR BROWN	KIT	MIL-PRF-85285D, COLOR CODE #20318
8010CFM13675	PAINT, ACFT INTERIOR WHT GLOSS 27855	KIT	MIL-PRF-85285D, COLOR CODE #27855

Squadron AUL from Air Force Enterprise ESOH-MIS Database



#### TAKE AWAYS



- Do not be intimidated by the large amounts of logistics data
- Review the program's contract documentation to avoid buying duplicate data
- ESOH needs to take ownership of HAZMAT logistics data elements being assigned to improve the management of HAZMAT items throughout their life cycle

Reduce program costs and improve HAZMAT management by consolidating ESOH with logistics requirements