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FED-STD-313D
APRIL 3, 1996
SUPERSEDING
FED-STD-313C
March 1, 1988

FEDERAL STANDARD
MATERIAL SAFETY DATA, TRANSPORTATION DATA AND DISPOSAL DATA FOR HAZARDOUS MATERIALS FURNISHED TO GOVERNMENT ACTIVITIES

The General Services Administration has authorized the use of this federal standard by all federal agencies.

1. **Scope and Purpose.** This standard establishes requirements for the preparation and submission of Material Safety Data Sheets (MSDS) by contractors who provide hazardous materials to government activities. Data obtained will be used within the government in employee safety and health programs and to provide for safe handling, storage, use, transportation and environmentally acceptable disposal of hazardous materials by government activities.

2. **Referenced Documents.** The following documents form a part of this standard to the extent specified herein. Unless otherwise specified, the issue in effect on the date of invitation for bids or request for proposal shall apply.

Code of Federal Regulations (CFR)

10 CFR - Energy

29 CFR Part 1910 - Occupational Safety and Health Standards.

29 CFR Part 1926 - Safety and Health Regulations for Construction

40 CFR - Protection of Environment

49 CFR Parts 100-180 - Hazardous Materials Regulations

(The CFR is available mail order from the Superintendent of Documents, ATTN: New Order, PO Box 371954, Pittsburgh, PA 15250-7954. When indicated, reprints of certain regulations may be obtained from the federal agency responsible for issuance thereof. Charge orders may be telephoned to the Government Printing Office order desk at (202) 512-1800.)

US Air Force Joint Manual:

AFJMAN 24-204/TM38-250/NAVSUP PUB 505/MCO P4030.19F/DLAM 4145.3-
Preparing Hazardous Materials for Military Air Shipments

(Application for copies should be addressed via the Contract Administration Office (CAO), Defense Contract Management Area Operations (DCMAO's) or the Defense Plant Representative Office (DPRO). An electronic copy of AFJMAN 24-204 can be accessed via the World Wide Web (WWW) Air Force HAZMAT Bulletin Board at http://www.afmc.wpafb.af.mil:12000/lib/ppb.html, and then selecting the HAZMAT Bulletin Board.)

FSC MISC

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any other data which may improve this document should be sent to: General Services Administration, Engineering & Commodity Management Division (10FTE), 400 15th St. SW, Auburn, WA 98001.

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International Air Transport Association:

"Dangerous Goods Regulations"

(Application for copies should be addressed to: Publications Assistant, International Air Transport Association, 2000 Peel Street Room 3050, Montreal, Quebec, Canada H3A 2R4. This is also available from commercial booksellers.)

International Maritime Organization:

"International Maritime Dangerous Goods Code"

(Application for copies should be addressed to: International Maritime Organization, 4 Albert Embankment, London, SE1 7SR, England. This is also available from commercial booksellers.)

American Conference of Governmental Industrial Hygienists (ACGIH):

"Threshold Limit Values for Chemical Substances and Physical Agents in the Workroom Environment"

(Application for copies should be addressed to: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH 45240.)

International Civil Aviation Organization

"Technical Instructions for the Safe Transport of Dangerous Goods By Air"

(Application for copies should be addressed to the Document Sales Unit, International Civil Aviation Organization, 1000 Sherbrooke St. W. Suite 400, Montreal, Quebec, Canada H3A 2R2.)

US Postal Service Mailability Regulations

Domestic Mail Manual CO23
Publication 52 - Acceptance of Hazardous, Restricted, or Perishable Matter

(Copies are available from Business Mail Acceptance at USPS Headquarters, and Postal Service Rates and Classification Service Centers around the country.)

American National Standards Institute (ANSI)

Z400.1 - Material Safety Data Sheets - Preparation
ANSI/UCC -1.1995 UPC Symbol Specification

(Application for copies should be addressed to: American National Standards Institute, 11 West 42nd Street, New York, New York 10036.)

3. **Definitions.**

3.1 **Contractor.** Any contractor, supplier, manufacturer, or other party who provides material to a government agency.

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3.2 **Hazardous material.**

3.2.1 Any item or chemical which is a "health hazard" or "physical hazard" as defined by OSHA in 29 CFR 1910.1200, which includes the following:

- chemicals which are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, sensitizers, hepatotoxins, nephrotoxins, neurotoxins, agents which act on the hematopoietic system, and agents which damage the lungs, skin, eyes, or mucous membranes;

-chemicals which are combustible liquids, compressed gases, explosives, flammable liquids, flammable solids, organic peroxides, oxidizers, pyrophorics, unstable (reactive) or water-reactive;

-chemicals which in the course of normal handling, use, or storage operations may produce or release dusts, gases, fumes, vapors, mists or smoke which have any of the above characteristics.

3.2.2 Any item or chemical which is reportable or potentially reportable or notifiable as inventory under the reporting requirements of the Hazardous Chemical Reporting (40 CFR Part 370), or as an environmental release under the reporting requirements of the Toxic Chemical Release Reporting: Community Right To Know (40 CFR Part 372), which includes the following:

-chemicals with special characteristics which in the opinion of the manufacturer can cause harm to people, plants, or animals when released by spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other receptacles).

3.2.3 Any item or chemical which, when being transported or moved, is a risk to public safety or an environmental hazard and is regulated as such by one or more of the following:

-Department of Transportation Hazardous Materials Regulations (49 CFR 100-180);

-International Maritime Dangerous Goods Code of the International Maritime Organization (IMO);

-Dangerous Goods Regulations of the International Air Transport Association (IATA);

-Technical Instructions of the International Civil Aviation Organization (ICAO);

-US Air Force Joint Manual, Preparing Hazardous Materials for Military Air Shipments (AFJMAN 24-204).

3.2.4 The item or chemical is a special nuclear source, or by-product material as defined in 10 CFR or is regulated or referred to as radioactive under one or more of the referenced documents in paragraph 2 above.

4. Requirements

4.1 **Referencing this standard in purchase documents.** Government agencies shall reference this standard in commodity specifications, contracts, and other purchase documents to assure inclusion of adequate requirements and clear instructions to contractors for the preparation and submission of Material Safety Data Sheets.

4.2 **Preparation and submission of MSDS.**

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4.2.1 Items requiring an MSDS. Contractors shall furnish a separate MSDS for each individual item which is defined as hazardous in paragraph 3.2, or which is required by the contract or order, or as specified in Appendix A.

4.2.2 Preparation of the MSDS. The MSDS shall meet all requirements of the 29 CFR 1910.1200 and should be in accordance with the 16 part format specified by the ANSI Z400.1 standard and shall include all information that is pertinent to the product. In addition, all information required in paragraph 4.3 must be included in the MSDS.

4.2.3 Submission of the MSDS.

4.2.3.1 Copies of the MSDS shall be provided as specified in the contract, order, and the Hazard Communication Standard (29 CFR 1910.1200)

4.2.3.2 Unless otherwise specified in the contract or order, one copy of the MSDS shall be furnished to the Service/Agency MSDS receipt point(s) listed in paragraph 5 for the Military service or Federal agency that purchased the item.

4.2.3.3 Electronic transmission of the MSDS may be accepted, depending on the receiving agencies capabilities.

4.2.4 Revision of MSDS. The contractor shall submit a revised MSDS when there has been a change in the composition or characteristics of the product which affects any of the information on the MSDS, or when the contractor becomes newly aware of any significant information regarding the hazards of a chemical or ways to protect against hazards. The revised MSDS shall be submitted to the Service/Agency MSDS receipt point(s) listed in paragraph 5 for the Military service or Federal agency that purchased the item, and shall be included with future shipments.

4.3 **Additional information required on the MSDS.** The MSDS shall contain the following information in addition to all health and safety information pertinent to the product. The preparer of the MSDS shall provide a response for each item listed below.

4.3.1 The contract or solicitation number, manufacturer's CAGE (Commercial and Government Entity) code, and contractors name and CAGE code.

4.3.2 The national stock number, activity control number, or local stock number specified in the contract. If these are not present, enter the Federal Supply Schedule Special Item Number for the item.

4.3.3 Where applicable, the specification reference including specification number, revision letter, type, grade, and class.

4.3.4 The chemical and common name(s), CAS (Chemical Abstract Service) Registry number, and exact percentage by weight of composition of all ingredients which are hazardous as defined in paragraph 3.2.

4.3.5 The OSHA permissible exposure limit, ACGIH Threshold Limit Value, and any other exposure limit used or recommended by any other recognized toxicological group, the manufacturer, importer, or employer preparing the MSDS, for each hazardous ingredient.

4.3.6 Report toxic chemicals as required under 40 CFR Part 355, 40 CFR Part 370, and 40 CFR Part 372.

4.3.7 Transportation data, to include the Proper Shipping Name, United Nations or North America Identification Number, Hazard Class, Packaging Group, and USPS Mailability.

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5. **Material Safety Data Sheet Receipt Points.** In addition to any other MSDS requirements in the contract, contractors shall submit one copy of each MSDS to the address indicated below for the Service/Agency/GSA Commodity Center which procured the item.

Procuring Service/Agency	MSDS receipt point
Air Force:	AL/OEMB 2402 E Drive Brooks AFB, TX 78235-5114
Army:	Chief USAMC LOGSA Packaging, Storage, and Containerization Center ATTN: AMXLS-TP-T 11 Hap Arnold Blvd. Tobyhanna, PA 18466-5097
Defense Logistics Agency:	Commander Defense Supply Center, Richmond ATTN: DSCR-VBA 8000 Jefferson Davis Highway Richmond, VA 23297-5607
Defense Mapping Agency:	Director Defense Mapping Agency ATTN: HRG, Occupational Health, A-8 8613 Lee Highway Fairfax, VA 22031
GSA - All Commodities:	GSA-FSS Paints and Chemicals Commodity Center ATTN: HMIS (10FTE) 400 15th St. SW Auburn, WA 98001-6599
Marine Corps:	Commanding Officer Navy Environmental Health Center ATTN: Code IH-HMIS 2510 Walmer Ave. Norfolk, VA 23513-2617
National Aeronautics and Space Administration:	National Aeronautics and Space Administration Occupational Health Office Code UOO 300 E Street Washington, DC 20546
National Security Agency:	Director National Security Agency Central Security Service ATTN: CODE L542 Ft. George G. Meade, MD 20756-6000

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Navy:	Commanding Officer Navy Environmental Health Center ATTN: Code IH-HMIS Walmer Ave. Norfolk, VA 23513-2617
Postal Service:	United States Postal Service Safety and Risk Management 475 L'Enfant Plaza West, SW Washington, DC 20260-4231
Tennessee Valley Authority:	Tennessee Valley Authority Employee Relations and Safety Program Operations P.O. Box 1010 MPB 1B Muscle Shoals, AL 35662-1010
US Coast Guard:	Commandant (G-KSE) United States Coast Guard 2100 2nd Street, SW Washington, DC 20593-0001
Veterans Affairs:	Submit to the Facility Safety Official at the Veterans Affairs facility contracting for the item. National Engineering Service Center Department of Veterans Affairs 2350 Market Plaza, Suite 100 St. Louis, MO 63103

6. NOTES

6.1 Universal Product Code (UPC). It is recommended that the UPC number, as printed on the product label, be printed on the MSDS. The UPC is equivalent to the CAGE Reference number. Use of the UPC as a license plate will greatly improve the ability to find the correct MSDS for the product.

MILITARY INTEREST:

Military Coordinating Activity
DLA-DH

Custodians
Army - MD
Navy - SA
Air Force - 07

Review Activities
Army - SM
Navy - MS, AS, SH
Air Force - 69
DLA - GS
Marine Corps - MC (LF, LPP, SD)
(Headquarters)

CIVIL AGENCY COORDINATING ACTIVITIES:

COM-NIST
DOE
EPA
HHS-NIH
HHS-DSR
DOL-TEC
DOT-OST
VA-OSS

PREPARING ACTIVITY:
GSA-FSS

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APPENDIX A - Identification of Hazardous Items by Federal Supply Class/Group (FSC/FSG)

10. **FSC/FSG identification of hazardous items.** Any FSC/FSG could contain a hazardous item.

Table I and Table II are not intended to be inclusive listings of all hazardous items, but to identify the major classes/groups which contain hazardous items. However, not all items in these classes/groups are hazardous.

10.1 **FSC's in which most items are hazardous.** An MSDS is required for all items listed in Table I unless the offeror provides written documentation that the items are not hazardous by any definition in section 3.2 of this standard.

Table I - MSDS Required For All Hazardous Items

FSC	Title
6810	Chemicals
6820	Dyes
6830	Gases: Compressed and Liquefied
6840	Pest Control Agents and Disinfectants
6850	Miscellaneous Chemical Specialties
7930	Cleaning and Polishing Compounds and Preparations
8010	Paints, Dopes, Varnishes, and Related Products
8030	Preservative and Sealing Compounds
8040	Adhesives
9110	Fuels, Solid
9130	Liquid Propellants and Fuels, Petroleum Base
9135	Liquid Propellant Fuels and Oxidizers, Chemical Base
9140	Fuel Oils
9150	Oils and Greases: Cutting, Lubricating, and Hydraulic
9160	Miscellaneous Waxes, Oils and Fats

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10.2 **Other FSG's.** An MSDS shall be submitted for all hazardous items defined in paragraph 3.2. Table II lists some examples of hazardous items in other Federal Stock Groups not listed in Table I.

This is not an all inclusive list, but is only meant as guidance.

Table II - Examples of Hazardous Items in Other FSG's.

FSG	Title	Examples of Hazardous Items
12	Fire Control Equipment	Initiator propellants, cartridges power device
13	Ammunition & Explosives	Explosive devices, fire starter, flares
14	Guided Missile Components & Accessories	Cartridges power device, rockets, PCB's
15	Aircraft & Airframe Structural Components	Radioactive materials
16	Aircraft Components & Accessories	Items containing asbestos
22	Railway Equipment	Items containing asbestos
25	Vehicular Equipment Components	Items containing asbestos
26	Tires & Tubes	Items containing flammable or toxic compounds
34	Metalworking Machinery	Compressed Gases, cleaners, acids, flux, and supplies containing or producing hazardous fumes
36	Miscellaneous Machinery	Flammable or toxic hazardous fumes
42	Fire Fighting, Rescue, & Safety Equipment	Extinguishing agents, repair and refill kits containing hazardous chemicals, items containing compressed gases or initiating charges
53	Hardware & Abrasives	Asbestos material, lead caulking, hazardous chemicals, items producing hazardous dust
54	Prefabricated Structures & Scaffolding	Repair kits containing hazardous chemicals
56	Construction & Building Materials	Cutback asphalt, deck and floor covering, sealing compounds, asbestos, formaldehyde, repair kits containing hazardous chemicals
58	Communication, Detection, & Coherent Radiation Equipment	Circuit cooler items containing ozone depleting substances, cleaners with hazardous chemicals
59	Electrical & Electronic Equipment Components	Items with PCB's, radioactive materials, flammable solvents, asbestos, or magnetic items
61	Electric Wire, & Power Distribution Equipment	Lithium, mercury, lead-acid, nickel-cadmium batteries
62	Lighting Fixtures & Lamps, Household & Quarters Use	Items containing mercury or radioactive materials
63	Alarm, Signal, & Security Detection Systems	Items containing wet batteries or radioactive materials
65	Medical, Dental, & Veterinary Equipment and Supplies	Items containing hazardous chemicals, radioactive materials, mercury, asbestos, or flammable solvents

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66	Instruments & Laboratory Equipment	Radioactive materials, flammable compounds, mercury, asbestos, compressed gases
67	Photographic Equipment	Radioactive compounds, solvents, thinners, and cements
75	Office Supplies & Devices	Solvents, thinners, cleaning fluids, flammable inks, varnishes, and chemicals which off-gas
84	Clothing, Individual Equipment, & Insignia	Maintenance kits containing flammable solvents
85	Personal Toiletry Articles	Pressurized containers with flammable or nonflammable propellants
87	Agricultural supplies	Items containing herbicides and/or insecticides
93	Fabricated Materials	Items containing flammable solvents or toxic materials
96	Ores, Minerals, and their Primary Products	Asbestos, mica, silica