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ARTICLE INFORMATION SHEET

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and other users requesting a GHS-compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro-technical devices. The design, safety, manufacture, and qualification of Energizer branded consumer batteries follow ANSI and IEC battery standards.

SECTION 1 - DOCUMENT INFORMATION

Product Name: Energizer Battery Document Number: 1218-Lith

Chemical System: Lithium Iron Disulfide Date Prepared: December 2018

Designed for Recharge: No Valid Until: December 2021

Prepared by: Energizer

SECTION 2 – COMPANY INFORMATION

Energizer Brands, LLC 533 Maryville University Drive St. Louis, MO 63141 Email for Information: energizer@custhelp.com www.energizer.com

SECTION 3 – ARTICLE INFORMATION

Description	Lithium Iron Disulfide Battery	
Use	Portable power source	
Brand	ENERGIZER	
IEC Designations	FR6 and FR03	
Sizes	AAA and AA	
Image	Energizer	



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SECTION 4 – ARTICLE CONSTRUCTION

IMPORTANT NOTE: The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

MATERIAL OR INGREDIENT	PEL (OSHA)	TLV (ACGIH)	%/wt.
Carbon Black (CAS# 1333-86-4)	3.5 mg/m³ TWA	3.5 mg/m³ TWA	0-4
1,2 Diemethoxyethane (CAS# 110-71-4)	None established	None established	2-4
1,3 Dioxolane (CAS# 646-06-0)	None established	20 ppm TWA	5-9
Graphite (CAS# 7782-42-5)	15 mg/m ³ TWA (total dust) 5 mg/m ³ TWA (respirable fraction)	2 mg/m ³ TWA (respirable fraction)	0-4.5
Iron Disulfide (CAS# 1309-36-0)	None established	None established	28-44
Lithium or Lithium Alloy (CAS# 7439-93-2)	None established	None established	6.3-6.6 / AA 5.4-5.5 / AAA
Lithium Iodide (CAS# 10377-51-2)	None established	None established	0.3-3
Non-Hazardous Components Steel (iron CAS# 65997-19-5)	None established	None established	18-25

^{*} PNOR: Particulates not otherwise regulated

All Energizer Lithium Iron Disulfide have zero added mercury.

Applicable Battery Industry Standards

North America Standards	ANSI C18.3M Part 1	ANSI C18.3 M Part 2	ANSI C18.4
International Standards	IEC 60086-1	IEC 60086-2	IEC 60086-4

SECTION 5 – HEALTH AND SAFETY

Ingestion: Do not induce vomiting or give food or drink. Seek medical attention immediately. CALL NATIONAL BATTERY INGESTION HOTLINE for advice and follow-up (202-625-3333) collect day or night.

The following instructions apply to exposure of internal components.

Inhalation: Contents of an open battery can cause respiratory irritation. **Skin Contact:** Contents of an open battery can cause skin irritation. **Eye Contact:** Contents of an open battery can cause severe irritation.

SECTION 6 – FIRE HAZARD & FIREFIGHTING

In case of fire where lithium batteries are present, flood area with water or smother with a Class D fire extinguishant appropriate for lithium metal, such as Lith-X. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out. Virtually all fires involving lithium batteries can be controlled by flooding with water. However, the contents of the battery will react with

^{**}PNOC: Particulates not otherwise classified



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water and form hydrogen gas. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended. A smothering agent will extinguish burning lithium batteries.

Emergency Responders should wear self-contained breathing apparatus. Burning lithium-iron disulfide batteries produce toxic and corrosive lithium hydroxide fumes and sulfur dioxide gas.

SECTION 7 - HANDLING AND STORAGE

Storage: Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life. In locations that handle large quantities of lithium batteries, such as warehouses, lithium batteries should be isolated from unnecessary combustibles.

Mechanical Containment: If potting or sealing the battery in an airtight or watertight container is required, consult your Energizer Brands, LLC representative for precautionary suggestions. Do not obstruct safety release vents on batteries. Encapsulation of batteries will not allow cell venting and can cause high pressure rupture.

Handling: Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, generate significant heat and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices. Damaging a lithium battery may result in an internal short circuit.

The contents of an open battery, including a vented battery, when exposed to water, may result in a fire and/or explosion. Crushed or damaged batteries may result in a fire.

If soldering or welding to the battery is required, consult your Energizer representative for proper precautions to prevent seal damage or short circuit.

Charging: This battery is manufactured in a charged state. It is not designed for recharging. Recharging can cause battery leakage or, in some cases, high pressure rupture. Inadvertent charging can occur if a battery is installed backwards.

Labeling: The label acts as an electrical insulation for the battery can. Damage to the label can increase the potential for short circuit.

WARNING: Do not install backwards, charge, put in fire, or mix with other battery types. May explode or leak causing injury. Replace all batteries at the same time.

SECTION 8 – DISPOSAL CONSIDERATIONS

Lithium iron disulfide batteries are not hazardous waste per the United States Resource Conservation and Recovery Act (RCRA) - 40 CFR Part 261 Subpart C. Dispose of in accordance with all applicable federal, state and local regulations.

SECTION 9 – TRANSPORT INFORMATION

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in "strong outer packaging" that prevents spillage of contents. All original packaging for Energizer lithium batteries are compliant with these regulatory concerns.

Energizer lithium-iron disulfide batteries are exempt from the classification as dangerous goods as they meet the requirements of the special provisions listed below. (Essentially, they are properly packaged and labeled, contain less than 1 gram of lithium and pass the tests defined in UN model regulation section 38.3).

Regulatory Body	Special Provisions
ADR	188, 230, 310, 636, 656
IMDG	188, 230, 310, 957
UN	UN 3090, UN 3091
US DOT	422, A54
IATA 60th Edition, ICAO	Packaging Instructions 968 – 970

Energizer is registered with CHEMTEL. In the event of an incident during transport call 1-800-526-4727 (North America) or 1-314-985-1511 (International).



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A global lithium label chart is provided below to summarize the current global labeling requirements.

Label Summary Chart

Shipping Mode	Li content	Net quantity wt. of batteries per package	Battery Type	₩	i i	CARGO ARCRAFT ONLY
	0.3g to \leq 1g/cell 0.3g to \leq 2g/ battery	<u><</u> 2.5 kg	L91, L92, L522	YES	YES	YES
AIR	<u><</u> 0.3g/cell	<u><</u> 2.5kg	All Li Coin and 2L76	NO	YES	YES
	<u><</u> 0.3g/cell	>2.5kg	All Li Coin and 2L76	YES	YES	YES
Land/	All	All	All	NO	VEC	VEC
Sea only	All	All	All	NO	YES	YES

SECTION 10 – REGULATORY INFORMATION

10A Battery

- SARA/TITLE III: As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right-To-Know Act.
- 2. USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996: No mercury added
- 3. EU Battery Directive 2006/66/EC Amended 2013/56/EU: Energizer batteries are compliant with all aspects of the Directive

10B General

- 1. **CPSIA 2008:** Exempt
- 2. US CPSC FHSA (16 CFR 1500): Not applicable since batteries are defined as articles
- 3. USA EPA TSCA (40 CFR 707.20): Not applicable since batteries are defined as articles
- 4. USA EPA RCRA (40 CFR 261): Classified as non-hazardous waste per ignitable, corrosive, reactive or toxicity testing
- 5. California Prop 65: No warning required
- 6. DTSC Perchlorate labeling: No warning required
- 7. EU REACH SVHC:1,2 dimethoxyethane (DME) is present above 0.01% w/w

10C Article Definitions

1. OSHA Hazard Communication Standard, Section 1910.1200(c)

SECTION 11 – GHS OTHER INFORMATION

None

Acronym Glossary

ANSI: American National Standards Institute



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CPSC: Consumer Product Safety Commission

CPSIA: Consumer Product Safety Improvement Act

DTSC: Department of Toxic Substances Control

EPA: Environmental Protection Agency

FHSA: Federal Hazardous Substances Act

GHS: Globally Harmonized System for Hazard Communication

<u>IEC</u>: International Electrotechnical Commission

OSHA: Occupational Safety and Health Administration

RCRA: Resource Conservation and Recovery Act

SDS: Safety Data Sheet

SVHC: Substances of Very high Concern TSCA: Toxic Substances Control Act

Energizer has prepared copyrighted Article Information Sheets to provide information on the different Eveready/Energizer battery systems. Batteries are articles as defined under the GHS and exempt from GHS classification criteria (Section 1.3.2.1.1 of the GHS). The information and recommendations set forth herein are made in good faith, for information only, and are believed to be accurate as of the date of preparation. However, ENERGIZER BRANDS, LLC MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM REFERENCE ON IT.



This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and others users requesting a GHS-compliant SDS. Articles, such as batteries, are exempt from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro-technical devices. The design, safety, manufacture, and qualification of branded consumer batteries follow ANSI and IEC battery standards. This document is based on principles set forth in the following hazard communication approaches: ANSI Z-400.1, GHS, JAMP AIS, and IEC 62474.

1. Document Information				
Document Name	Duracell Alkaline Batteries (Major and Specialty Cells)			
Document ID	AIS-ALK			
Issue Date	1-May-15			
Version	1			
Preparer	Global Product Stewardship			
Last Revision	New			
Information Contact	moquet.l@pg.com			
2. Company Information				
Name & Address	P&G Duracell Global Bu	ısiness Unit, 14 Research [Drive, Bethel, CT USA	06801
Telephone	(203) 796- 4430			
Website	www.duracell. com			
Consumer Relations	North America: 1-800-5	551-2355 (9:00 AM - 5:00 F	PM EST)	
3. Article Information				
Description	Duracell branded consu	ımer alkaline battery		
Product Category	Electro-technical device	·		
Use	Portable power source	for electronic devices		
Global sub-brands (Retail)		um, Simply, Turbo, Ultra,	Basic, TurboMax	
Global sub-brands (B2B)	Procell, Industrial, OEM			
Sizes	Major Cells: AA,AAA, C			
Sizes	Specialty Cells: AAAA, N	л ЛN11. MN21, MN27, MN1	75, PX76 (LR44), PX2	8, PX625, (LR09),
	LR43, LR54, N, J, 4.5V, 625A			
Sizes	Lanterns: MN903, MN	908, MN915, MN918; MN	1203	
Principles of Operation	A battery powers a device by converting stored chemical energy into electrical energy.			
Representative Product Images	DURACELL	Onbycerr Onbycerr Onbycerr Onbycerr	DURACELL	
	Maior Cells	Maior Cells	Lantern	Specialty
4. Article Construction				
Applicable Battery Industry	ANSI C18.1M Part 1, AN	ISI C18.1M Part 2, ANSI C1	.8.4, IEC 60086,1, IEC	60086-2, IEC
Standards	60086-5			
Electro-technical System	Alkaline Manganese Dioxide			
Electrode - Negative	Zinc (CAS # 7440-66-6)			
Electrode - Positive	Manganese Dioxide (CAS # 1313-13-9)			
Electrolyte	Alkali Metal Hydroxide (aqueous potassium hydroxide - CAS # 1310-58-3)			
Materials of Construction - Can	Nickel Plated Steel			
Declarable Substances	None			
(IEC 62474 Criteria 1)				
Mercury Free Battery	Yes			
(ANSI C18.4M <5ppm)				
Small Cell or Battery	Sizes: AAA and Specialt	y Cells fit inside a specially	designed test cylind	er 2.25 inches
(ANSI C18.1M Part 2; IEC 60086-5)	(57.1mm) long by 1.25 inches (31.70 mm) wide.			
5. Health & Safety				



Ingestion/Small Parts Warning	Required for Small Cell or Battery (Sizes: AAA and Specialty Cells): Keep away from		
	children. If swallowed, consult a physician immediately.		
Normal Conditions of Use	Exposure to contents inside the sealed battery will not occur unless the battery leaks, is exposed to high temperatures, or is mechanically abused.		
Note to Physician	A damaged battery will release concentrated and caustic potassium hydroxide.		
First Aid - If swallowed	Do not induce vomiting. Seek medical attention immediately. USA CALLS ONLY - CALL 24 HOUR NATIONAL BATTERY INGESTION HOTLINE: (202) 625-3333 - COLLECT.		
First Aid - Eye Contact	Flush with water for at least 15 minutes. Seek medical care if irritation persists.		
First Aid - Skin Contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical care if irritation persists.		
First Aid - Inhalation	Remove to fresh air.		
Battery Safety Standards & Testing	Duracell batteries meet the requirements of ANSI C18. 1M Part 2 and IEC 60086-5. These standards specify tests and requirements for alkaline batteries to ensure safe operation under normal use and reasonably foreseeable misuse. The test regimes assess three conditions of safety. These are: 1-Intended use simulation: Partial use, vibration, thermal shock, and mechanical shock 2-Reasonably foreseeable misuse: Incorrect installation, external short-circuit, free fall (user-drop), over-discharge, and crush 3-Design consideration: Thermal abuse, mold stress		
Precautionary Statements	CAUTION: Batteries may explode or leak, and cause burn injury, if recharged, disposed of in fire, mixed with a different battery type, inserted backwards or disassembled. Replace all used batteries at the same time. Do not carry batteries loose in your pocket or purse. Do not remove the battery label. Keep small batteries (i.e., AAA) away from children. If swallowed, consult a physician at once.		
6. Fire Hazard & Firefighting			
Fire Hazard	Batteries may rupture or leak if involved in a fire.		
Extinguishing Media	Use any extinguishing media appropriate for the surrounding area.		
Fires Involving Large Quantities of Batteries	Large quantities of batteries involved in a fire will rupture and release caustic potassium hydroxide. Firefighters should wear self-contained breathing apparatus and protective clothing.		
7. Handling & Storage			
Handling Precautions	Avoid mechanical and electrical abuse. Do not short circuit or install incorrectly. Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions.		
Storage Precautions	Store batteries in a dry place at normal room temperature. Refrigeration does not make them last longer.		
Spills of Large Quantities of Loose Batteries (unpackaged)	Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.		
8. Disposal Considerations (GHS Sec	tion 13)		
Collection & Proper Disposal	Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.		



LICA EDA DCDA (40 CED 261)			
USA EPA RCRA (40 CFR 261)	Classified as non-hazardous waste (not ignitable, corrosive, reactive or toxic). Federal Universal Waste Regulations (40 CFR 273) do not apply. State requirements may be more stringent than Federal.		
California Universal Waste Rule (Cal. Code Regs. Title 22, Div. 4.5, Ch. 23)	California prohibits disposal of batteries as trash (including household trash).		
9. Transport Information (GHS Section	14)		
Regulatory Status	Not regulated. Alkaline batteries (sometimes referred to as "Dry Cell" or "household" batteries) are not listed or regulated as dangerous goods under IATA Dangerous Goods Regulations, ICAO Technical Instructions, IMDG Code, UN Model Regulations, U.S. Hazardous Materials Regulations (49 CFR), and UNECE ADR.		
UN Identification Number/ Shipping Name	None - Not Required		
Special Provision (SP) Conformance	Special regulatory provisions require batteries to be packaged in a manner that prevents the generation of a dangerous quantity of heat and short circuits. Shippers can prepare batteries by taping the terminals, individually packaging batteries, or otherwise segregating the batteries to prevent risk of creating a short circuit. Batteries shipped in original unopened Duracell packaging is compliant.		
US DOT SP	49 CFR 172.102 Special Provision 130		
Air Transport (IATA/ICAO) SP	Special Provision A123 (56th Edition - 2015). NOTE: The words "NOT RESTRICTED" and "SPECIAL PROVISION A123" must be included on the description of the substance on the Air Waybill, when air way-bill is issued.		
Passenger Air Travel	No restrictions		
Emergency Transportation Hotline	CHEMTREC 24-Hour Emergency Response Hotline Within the United States call +703-527-3887 Outside the United States, call +1 703-527-3887 (Collect)		
10. Regulatory Information (GHS Sect	ion 15)		
10a. Battery Requirements			
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996	During the manufacturing process, no mercury is added.		
USA EPA Mercury Containing & Rechargeable Battery Management	During the manufacturing process, no mercury is added. Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium		
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996			
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU 10b. General Requirements	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators		
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article		
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU 10b. General Requirements USA CPSIA 2008 (PL. 11900314) USA CPSC FHSA (16 CFR 1500)	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators Exempt Consumer batteries are not listed as a hazardous product.		
USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU 10b. General Requirements USA CPSIA 2008 (PL. 11900314) USA CPSC FHSA (16 CFR 1500) USA EPA TSCA Section 13 (40 CFR 707.20)	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%)I and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators Exempt Consumer batteries are not listed as a hazardous product. For customs clearance purpose, batteries are defined as an "Article".		
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USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996 EU Battery Directive 2006/66/EC & amendment 2013/56/EU 10b. General Requirements USA CPSIA 2008 (PL. 11900314) USA CPSC FHSA (16 CFR 1500) USA EPA TSCA Section 13 (40 CFR 707.20) USA EPA RCRA (40 CFR 261) California Prop 65 CANADA Products Containing	Compliant with marking and substance restrictions for mercury (<0.0005%); cadmium (<0.0020%) and lead (<0.0040%). Global labels are marked with the special collection symbol and the EU qualifier in accordance with EU Battery Directive 2006/66/EC, Article 11. Paragraph 1 on batteries and accumulators and waste batteries and accumulators Exempt Consumer batteries are not listed as a hazardous product. For customs clearance purpose, batteries are defined as an "Article". Classified as non-hazardous waste (not ignitable, corrosive, reactive or toxic). Federal Universal Waste Regulations (40 CFR 273) do not apply. State requirements may be more stringent than Federal. No warning required per 3rd party assessment.		



10c. Regulatory Definitions - Articles			
USA OSHA	29 CFR 1910.1200(b)(6)(v)		
USA TSCA	40 CFR 704.3; 710.2(3)(c); and [19 CFR 12.1209a)]		
EU REACH	Title 1 - Chapter 2 - Article 3(3)		
GHS	Section 1.3.2.1		
11. Other Information			
11a. Certification & 3rd Party Approva	als		
UL (UTGT2.S50939 Single Multiple	AA, 9V		
Station Smoke Alarms - Component)	Certification Standard: ANSI/UL 217 Single & Multiple Station Smoke Alarms		
11b. AIS Hazard Communication Appr	oaches (consulted in developing this document):		
Globally Harmonized System (GHS)	GHS SDS requirements and classification criteria do not apply to articles or products (such as batteries) that have a fixed shape, which are not intended to release a chemical. The article exemption is found in Section 1.3.2.1.1 of the GHS and reads: <i>The GHS applies to pure substances and their dilute solutions and to mixtures. "Articles" as defined by the Hazard Communication Standard (29 CFR 1900.1200) of the OSHA of the USA, or by similar definition, are outside the scope of the system."</i>		
Joint Article Management Promotion Consortium JAMP	JAMP is a Japanese Industry Association who developed the concept of an Article Information Sheet as a supply chain tool to share and communicate chemical information in articles. The AIS authoring process is based on "declarable" substances to meet global regulatory requirements as well as substances to be reported by GADSL, JIG, etc.		
IEC 62474 Ed. 1.0 B:2012 Material Declaration for Products of and for the Electro-technical Industry	An international standard that came into effect in March 2012 concerning declaration for electrical and electronic products. IEC 6274 replaces the defunct Joint Industry Guide – Material Declaration for Electro-technical Products (JIG-101-Ed 4.1 (May 21, 2012)		
Environmental Standardization for	The general principle for a substance to be included in the database as a declarable substance is: 1) existing national laws or regulations in an IEC member country that are relevant to Electro-technical products and that prohibit or restrict substances, or that have a labeling, communication, reporting or notification requirement, and 2) applying IEC 62474 criteria results in identification of declarable substance.		
ANSI Z 400.1/Z19.1 (2010)	2.1 Scope: Applies to preparation of SDSs for hazardous chemicals used under occupational conditions. Does not address how the standard may be applied to articles. It presents basic information on how to develop and write a SDS. Additional information is provided to help comply with state and federal environmental and safety laws and regulations. Elements of the standard may be acceptable for International use.		
DISCLAIMER: This AIS is intended to p	rovide a brief summary of our knowledge and guidance regarding the use of this		

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