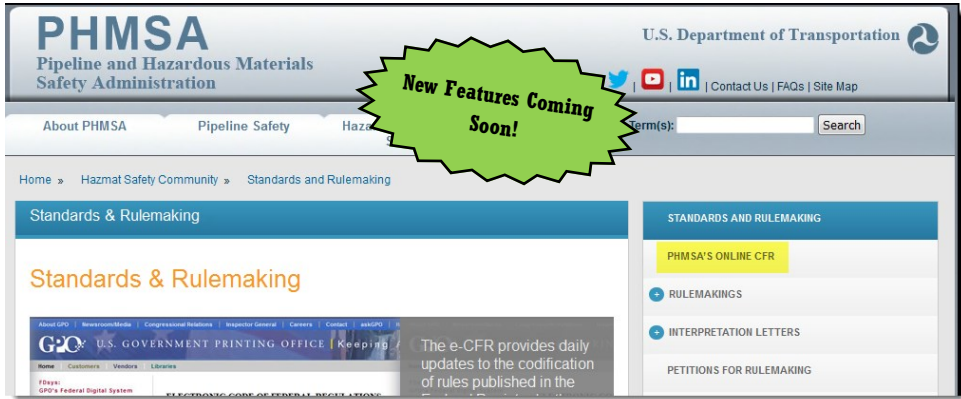




## Welcome to PHMSA's Online CFR (oCFR)



## WHAT IS oCFR

The Online Code of Federal Regulations (oCFR), is an interactive web-based application that automates the way the Hazardous Materials Regulations (HMR; 49 CFR Parts 171 -180) are accessed. It is a **One Stop Shop** that allows users to access content related to the HMR such as, **Interpretations, Rulemakings, and Special Permits.**

## BENEFITS

**Navigate Instantly Between Related Content with a Single Click**

- ◆ **CFR** — View regulations, notifications of recent rulemakings, and connect to other documents.
- ◆ **Rulemakings** — View related rulemaking history (from 2014 to present).
- ◆ **Letters of Interpretation** — View all related letters of interpretations, and new status feature.
- ◆ **Petitions** — View petitions to request changes to the HMR.
- ◆ **Approvals & Special Permits**
- ◆ **Enforcement Cases**

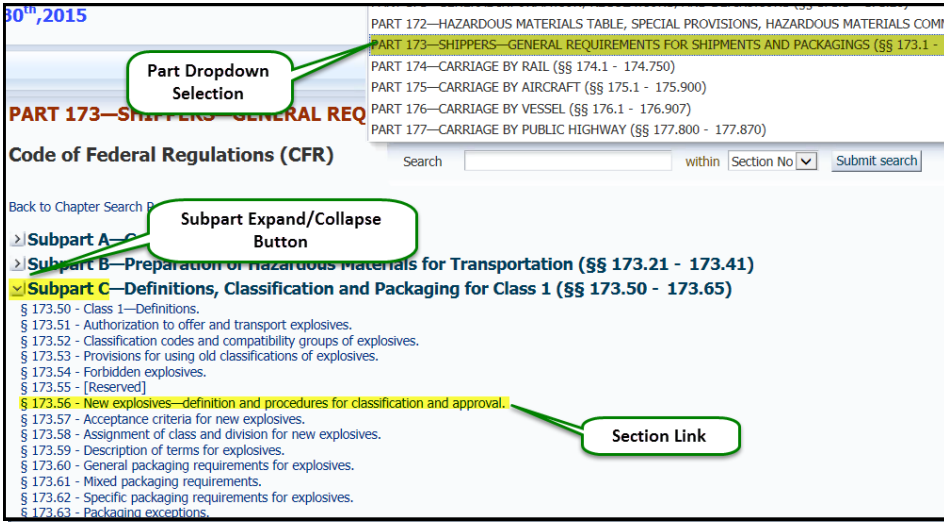
## FEATURES

- ◆ Robust Search Capability: Narrow search results by keyword.
- ◆ Single click to view document details.
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- ◆ View and print PDF version of documents.

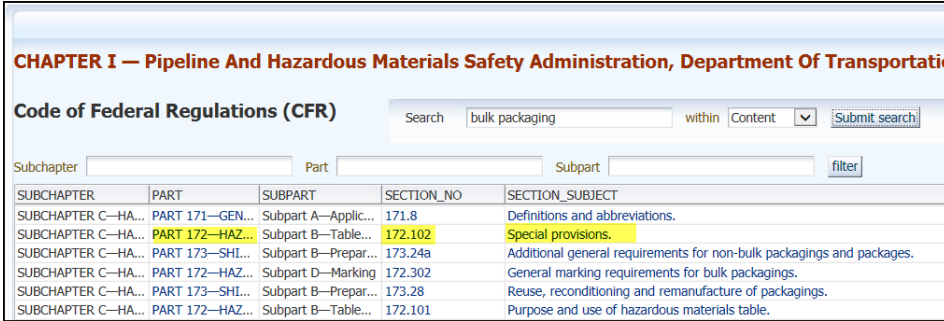
## QUESTIONS OR FEEDBACK?

- ◆ Click on the **Feedback** link on the **Related Content Menu**, complete and submit form

**Getting Started Method 1:** Navigate to 49 CFR Part or Section by expanding menu.



**Getting Started Method 2:** Search by Content Keyword or Section No



PART	SECTION NO.	SECTION SUBJECT
Click Part to view all related content for all sections in this part.	Click Section to view all related content for this section.	Click Subject to quickly preview this section. No related content.

SUBCHAPTER C—HAZARDOUS MATERIA > PART 173—SHIPPERS—GENERAL REQU > Subpart E—Non-bulk Packaging f > § 173.185 Lithium cells and batteries.

Updated September 30<sup>th</sup>, 2015

**CFR Publication Date**

**Recent RuleMaking Link and Date**

**oCFR Related Content Menu**

**CFR Appendices Interpretations RuleMaking Approvals Special Permits Enforcement Petitions Authorities Feedback**

**§ 173.185 Lithium cells and batteries.**

**Final Rule Updated Section 173.185 after 10/01/2015**

**Code of Federal Regulations(CFR)**

As used in this section, *lithium cell(s) or battery(ies)* includes both lithium metal and lithium ion chemistries. *Equipment* means the device or apparatus for which power is for its operation.

(a) *Classification.* (1) Each lithium cell or battery must be of the type proven to meet the criteria in Part III, sub-section 38.3 of the UN Manual of Tests and Criteria, Revision 3, and batteries are subject to these tests regardless of whether the cells used to construct the battery are of a tested type.

(i) Cells and batteries manufactured according to a type meeting the requirements of sub-section 38.3 of the UN Manual of Tests and Criteria, Revision 3, are applicable at the date of the type testing may continue to be transported, unless otherwise provided in this subchapter.

(ii) Cell and battery types only meeting the requirements of the UN Manual of Tests and Criteria, Revision 3, are no longer valid. However, cells and batteries 2003 may continue to be transported if all other applicable requirements are fulfilled.

(2) Each person who manufactures lithium cells or batteries must create a record of satisfactory completion of the testing required by this paragraph prior to (i) Maintain this record for as long as that design is offered for transportation and for one year thereafter; and (ii) Make this record available to an authorized representative of the Federal, state or local government upon request.

(3) Except for cells or batteries meeting the requirements of paragraph (c) of this section, each lithium cell or battery must:

(i) Incorporate a safety venting device or be designed to preclude a violent rupture under conditions normally incident to transport;

**A: RELATED CONTENT MENU**

oCFR provides links to related content. Authorities and Training materials coming soon!

**B: CFR PUBLICATION DATE**

The CFR is published annually, and the oCFR is updated monthly though Rulemakings.

**Interpretations**

CFR Interpretations

**113 Interpretation Letter(s) for Part/Section 173.185**

Search Download.xls Filter by Status

Issue Date From	Issue Date To	Issue Date	Reference No.	Subject Title	Citation Section	Company (or Individual)	Status
12/14/2015		12/14/2015	15-0146	Test Requirements When Adding Safety Features to Lithium Ion and Metal Batteries	171.7, 173.185	MGA Research Co...	Current
1/27/2009		09-0008		Clarification requirements referenced in variation US 2 of the ICAO TI relative to prohibi...	172.101, 172.102...	FedEx Express...	Use Caution
3/16/2010		10-0012		Clarification of the UN Manual of Tests and Criteria for Lithium Batteries	172.101, 173.185	MGA Research Cor...	Use Caution
09/30/2010		09-0860		Transportation of Used Dry Cell Batteries and Used Lithium Metal Batteries	172.101, 173.185	National Electrical...	Use Caution
10/27/2011		11-0223		Classification of Lithium Ion Batteries	172.101, 173.185	Lockheed Martin ...	Use Caution
11/01/1995		95-0224		Classification of Lithium Ion Batteries	172.101, 173.185	SAPT America, Inc.	Use Caution
7/29/2009		09-0085		Use of Exceptions for Small Lithium Ion Batteries for Battery Configurations	173.185	ICC Newergy	Use Caution
07/20/2009		09-0085		"Small" lithium ion batteries test requirements under the UN Manual of Test...	173.185, 1...	Cell-Con, Inc.	Use Caution
02/24/2013		12-0261		Transportation of Small Lithium Metal Batteries	172.102 SP 188, 1...	Vasco Data Secur...	Use Caution
09/20/2013		13-0096		Lithium Battery Documentation Requirements Shipped under SP 188	172.102 SP188, 1...	3M	Use Caution
07/13/2014		14-0089		Requirements for Life-saving Appliances Containing Lithium Batteries	172.102, 173.185...	URS Corporation I...	Current
04/16/2000		99-0202		Shipment of Lithium Batteries	172.102 - 173.21	Howrey and Simon	Use Caution

Reference No. link for details.

Subject Title link

Status

**RuleMaking**

Rule Making History

Rulemaking Action All(default) keyword

Notice(s) appear(s) in the Federal Register after the publish date of October 1, 2015

RM(s) appear(s) in the Federal Register after the publish date of October 1, 2015

al Rule(s) appear(s) in the Federal Register after the publish date of October 1, 2015

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Year	Docket Number	PHMSA ID	Rulemaking Title	Actions
2015			Hazardous Materials: Notice of Application for Modification of Special Permit	Notice List of Ar
7/2015			Hazardous Materials: Notice of A	Notice List of Ar
1/2014			Notice of Application for Modifici	Notice List of Ar
1/2015			Hazardous Materials: Notice of A	Notice List of Ar
3/2014			Office of Hazardous Materials Sa	Notice List of Ar
1/2015			Notice of Application for Special	Notice List of Ar
1/2014			Office of Hazardous Materials Sa	Notice List of Ar
3/2014			Office of Hazardous Materials Sa	Notice List of Ar
1/2015			Notice of Application for Special	Notice List of Ar

Rulemaking Title

Rulemaking Details

Rule Making History

Actions

**Special Permits**

Special Permits

**430 Special Permit(s) for Part/Section**

Status All

Issue Date	Sp Number	Tracking Number	UN Number	Company (or Individual)	Expiration Date	Status
5/25/2004	8451	2004041505	UN0349, UN0349	ACADA ENTERPRISES, INC	1/31/2006	Granted
5/25/2004	8451	2004041509	UN0349, UN0349	ACCURATE ENERGETIC SYSTEMS, LLC	1/31/2006	Granted
1/18/2006	8786	2006010099	UN1044, UN1044	PIPELINE AND HAZARDOUS MATERIALS SAFETY ADMINISTRATION	12/31/2009	Granted
2/24/2006	12716	2006020075	UN1002, UN1002	PIPELINE AND HAZARDOUS MATERIALS SAFETY ADMINISTRATION	2/28/2006	Granted
3/8/2006	9740	2006020528	UN1002, UN1002	PIPELINE AND HAZARDOUS MATERIALS SAFETY ADMINISTRATION	2/28/2006	Granted
3/31/2006	9403	20060311		PHMSA Special Permit 8451		
3/31/2006	9401	20060311		PHMSA Special Permit 8451		
7/25/2006	9716	20060311		PHMSA Special Permit 8451		
5/23/2006	12481	20060511		PHMSA Special Permit 8451		
6/28/2007	10659	20070600		PHMSA Special Permit 8451		
7/28/2007	10659	20080500		PHMSA Special Permit 8451		
11/12/2009	9266	20080700	UN Number UN0349, UN0349, UN0349, UN0349, UN0349, UN0471, UN0471, UN0471, UN0471, UN0471, UN0471	ACCURATE ENERGETIC SYSTEMS, LLC		Granted
09/12/2009	5600	20081100		ACCURATE ENERGETIC SYSTEMS, LLC		Granted
9/3/2009	14493	20090300		ACCURATE ENERGETIC SYSTEMS, LLC		Granted

View Special Permit

Special Permit Details

Status

**Table of Hazardous Materials and Appendices**

Code of Federal Regulations(CFR) Table of Hazardous Materials and Appendices

Table of Hazardous Materials & Appendices > Hazardous Materials Table

**Table of Hazardous Materials (§172.101) and Appendices (§172.101)**

Updated September 1 11:44/sup> 2015

Hazardous Materials Table Appendix A: Table 1 Appendix A Table 2 Appendix B

Search the Hazardous Materials Table

Search for hazardous materials by inputting data into one or more of the fields below.

(1) Symbols (2) Proper Shipping Names (PSN) (3) Hazard Class (4) UN ID Number (5) Packaging Group (6) Label Codes (7) Special Provisions (8A) Packaging Exceptions (8B) Non-bulk Packaging (8C) Bulk Packaging (9A) Passenger Limitations (9B) Aircraft Cargo Limitations (10A) Vessel Stowage - Location (10A) Vessel Stowage - Other

Download Hazmat Table Search

**Table of Hazardous Materials (§172.101) and Appendices (§172.101)**

Updated September 1 11:44/sup> 2015

Hazardous Materials Table Appendix A: Table 1 Appendix A Table 2 Appendix B

**Appendix A: Table 1 - Hazardous Substances Other Than Radionuclides**

Hazardous Substance	Reportable Quantity: lbs. (kg)
Tetrahydrofuran	1000 (454)
Tetranitromethane	10 (4.54)
Tetraphosphoric acid, hexaethyl ester	100 (45.4)
Thallic oxide	100 (45.4)
Thallium <sup>4</sup>	1000 (454)
Thallium (I) acetate	100 (45.4)
Thallium (I) carbonate	100 (45.4)
Thallium chloride TlCl	100 (45.4)
Thallium (I) nitrate	100 (45.4)
Thallium oxide Tl <sub>2</sub> O <sub>3</sub>	100 (45.4)
Thallium (I) selenite	1000 (454)
Thallium (I) sulfate	100 (45.4)
Thioacetamide	10 (4.54)
Thiodi-carb	100 (45.4)