TRANSPORT DATA SHEET POWDER, SMOKELESS

Mode of Transportation: US Domestic Ground & Rail

This is not an official document. It may be used for quick reference but is not intended to guarantee regulatory compliance.

PRODUCT OVERVIEW

Proper Shipping Name	Powder, smokeless							
Identification Number	UN0509 Hazard Class 1.4C							
Commodity	propellants with a single b	ocellulose used as propellant base (nitrocellulose (NC) alone oglycerin (NG)) and those with).	e), those with a double					

Executive Summary

The package, overpack and shipping paper should appear like the images below. The UN number, proper shipping name and hazard label should be located together, printed on or affixed to a side or top of the outer packaging.

Package Approach

Minimum Package Marking



Typical Pallet Overpack



Completing a Bill of Lading

Below is an example of the Carrier Information section of the Bill of Lading (BOL) for this scenario. Additional details on completing the entire BOL is located in the <u>Shipping Paper Requirements</u> section of this Transport Data Sheet.

HAND	LING UNIT	PA	CKAGE	GROSS NEM		ем н.м	COMMODITY DECRIPTION	LTL ONLY		
QTY	TYPE	QTY	TYPE	WEIGHT (LBS)	(LBS)	(X)	Commod his requiring special or additional core or attention in nanding or stowing must be so marked and packaged as to ensure safe transcontation with ordinary care.	NMFC NUMBER	CLASS	
1	PALLET	36	BOXES	450	360	х	UN0509, Powder, smokeless, 1.4C	[PER NMFC]	[PER NMFC]	
		10	BOXES	70	50	х	UN0044, Primers, cap type, 1.4S	[PER NMFC]	[PER NMFC]	
		2	BOXES	50			LTD QTY Cartridges, small arms	[PER NMFC]	[PER NMFC]	
1	# Pallets @	60 48	pounds each Total Pieces	570 60 630	GROSS W PALLET W TOTAL GR	/EIGHT		(lbs)		

TRANSPORT DATA SHEET POWDER, SMOKELESS Mode of Transportation: US Domestic Ground & Air

HAZARDOUS MATERIALS TABLE

ſ									(8)		(9)		(10)	
	Symbols	Hazardous Materials Descriptions and	Hazard Class	Identification Numbers	PG	Label	Special Provisions		kaging 73.***)		Quantity Limit (see § 173.27 175.75	and §	Vessel St	owage
		Proper Shipping Name	or Division	Numbers		Codes	Provisions	Exceptions	Non- Bulk	Bulk	Passenger Aircraft/Vessel	Cargo Aircraft Only	Location	Other
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
ſ		Powder, smokeless	1.4C	UN0509		1.4C	16	171	62	None	Forbidden	75 kg	2	25

Any blank column of the HazMat table is not applicable.

Citation: 49 CFR § 172.101; 49 CFR § 172.102

CLASSIFICATION

Smokeless powder is classified by the Department of Transportation (DOT) in an EX approval issued to the manufacturer. UN0509 is assigned to smokeless powders packaged and tested to meet the criteria of Division 1.4. Propellants are assigned to Compatibility Group C. Shippers may re-ship smokeless powder using the manufacturer's EX approval including any special requirements.

EX approvals can be searched on the Pipeline and Hazardous Materials Safety Administration (PHMSA) website on the Hazardous Materials Approval Search page.

Citation: 49 CFR § 173.56

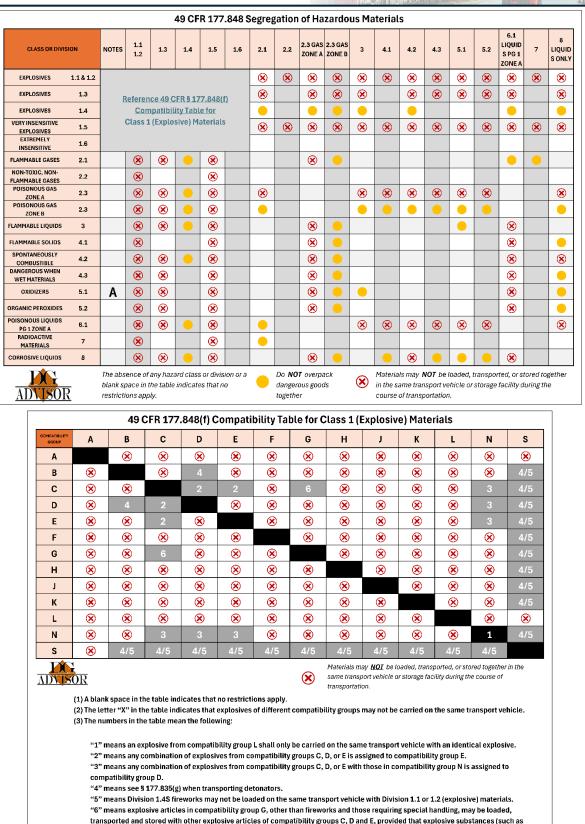
SEGREGATION

Dangerous goods are subject to segregation requirements at the package, overpack (e.g., pallet) and conveyance (e.g., truck) levels. Below is the Segregation of Hazardous Materials along with the compatibility Table for Class 1 Explosives. Some goods may be packaged together in the same package, but this is often restricted by packaging testing requirements.

- Some dangerous goods may be overpacked together.
- Some dangerous goods which can't be overpacked together can be transported together.
- Some dangerous goods may not be transported together.

TRANSPORT DATA SHEET **POWDER, SMOKELESS**

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Citation: 49 CFR § 177.848 - Segregation and Separation Chart of Hazardous Materials

Packages

Smokeless powder must not be intermingled with other products within the same package.

OVERPACK

When consolidating two or more packages into an overpack, whether a pallet or another package, the shipper must ensure that the materials are in compliance with the Segregation and Compatibility Tables listed above.

Citation: <u>49 CFR § 177.848</u>

Stowage in the Same Motor Vehicle

When prohibited by the Segregation or Compatibility tables, smokeless powder may not be transported with other hazardous materials in the same freight container, trailer or straight truck; incompatible materials may be shipped in different trailers pulled by one truck.

Citation: 49 CFR § 177.848(d-g)

PACKAGING INFORMATION

Package smokeless powder as follows:

Smokeless powder must be packed in accordance with the following packing instruction:

Packing instruction	Inner packagings	Intermediate packagings	Outer packagings
114(b)	Bags, Receptacles	Not necessary	Boxes, Drums
EXCEPTIONS: 1. For UN Nos. 0077, 0132, 0234, 0235 and 0236, packagings must be lead free 2. For UN0160 and UN0161, when metal drums (1A2, 1B2 or 1N2) are used as the outer packaging, metal packagings must be so constructed that the risk of explosion, by reason of increased internal pressure from internal or external causes, is prevented. 3. For UN0160, UN0161, and UN0508, inner packagings are not necessary if drums are used as the	Bags. paper, kraft, plastics textile, sift-proof woven plastics, sift- proof <i>Receptacles</i> . fiberboard metal paper plastics wood plastics, sift-proof		Boxes. natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fiberboard (4G) Drums. steel (1A1 or 1A2) aluminum (1B1 or 1B2) other metal (1N1 or 1N2) plywood (1D) fiber (1G) plastics (1H1 or 1H2)

- Metal packagings are prohibited for UN0509, with some exceptions (e.g., lids)
- The package must be tested and certified not to leak under normal transport conditions.
- The maximum gross weight is limited to 400 kg (882 pounds) per package. Reference the specific EX number for additional packing requirements which may reduce the package net weight.

Citation: 49 CFR § 173.62; 49 CFR 178 Subpart L; 49 CFR 178 Subpart M

PACKAGE LABELING & MARKING

Below is a summary of the marking requirements for the package.

Minimum Package Marking



Application of Label & Marking

The following label(s) and/or mark(s) are required for this package. Labels and marks can be pre-printed or affixed as stickers. Stickers must not wrap around an edge and must be affixed relatively straight.

- 1. UN Number
 - 1. A UN number, or United Nations identification number, is a four-digit code that identifies dangerous goods for transportation.

2. Proper Shipping Name

1. A proper shipping name is a standardized name used to identify a dangerous good during transportation.

3. 1.4C Hazard Label

1. The hazard label communicates the class and division, and for explosives, the compatibility group.

4. Consignor or consignee's name & address

- 1. Per <u>49 CFR §172.301(d)</u>, the package must be marked with the consignor or consignee's name and address unless the package is:
 - 1. Transported by highway only and will not be transferred from one carrier to the other;
 - 2. Part of a carload lot, truckload lot or freight container load, and the entire contents of the rail car, truck or freight container are shipped from one consignor to one consignee.
- 5. A specification package must be used with the package test certification mark affixed
 - 1. Class 1 Explosives must meet the Packing Group II package testing requirements as listed in 49 CFR 178 Subpart M – Testing of Non-Bulk Packagings and Packages.

6. EX number(s) of the Explosive(s)

1. Each package containing a Class 1 material must be marked with the EX number. Alternatively, either the EX number or product code on the EX approval may be appear on the packaging or shipping paper.

2. NOTE: if more than 5 different Class 1 materials are packaged in the same package, the package may be marked with only five of the EX numbers.

Citation: <u>49 CFR § 172.301(d)</u>; <u>49 CFR § 172.320</u>; <u>49 CFR § 172.400</u>; <u>49 CFR § 172.411(c)</u>; <u>49 CFR § 172.411(</u>

OVERPACKS

An overpack is an enclosure that is used by a single consignor to provide protection or convenience in handling of a package or to consolidate two or more packages. Overpack does not include a transport vehicle, freight container, or aircraft unit load device. Examples of overpacks are one or more packages:

- 1. Placed or stacked onto a load board such as a pallet and secured by strapping, shrink wrapping, stretch wrapping, or other suitable means; or
- 2. Placed in a protective packaging such as a box or crate.

Packages in an overpack must be prepared such that they could be compliantly transported without the overpack, including any required marks and hazard or handling labels.

When preparing an overpack:

- Overpacks must not be marked with a package test certification unless they are tested.
- The overpack must be marked "OVERPACK" when a package test certification mark is required on a package inside the overpack (e.g., LQ has slightly different rules). This is not required if the UN number, proper shipping name and hazard label are visible at least once from the outside of the overpack.
 - For example, EX numbers do not need to be replicated on overpacks.
- When the OVERPACK mark is required, also replicate the UN number, proper shipping name and hazard label on the overpack.
- When required, the word OVERPACK shall be at least 12 mm (1/2") high, preferably 1 inch tall.
- The OVERPACK mark may have a border, but it is not required.

Example of the OVERPACK mark



Citation: 49 CFR § 178.8 "Overpack"; 49 CFR § 173.25

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Overpack Examples



When overpacking one or more packages of Smokless Powder into a protective outer packaging, apply the following:

Hazard Label:

1. 1.4C hazard label

Marks:

- 1. OVERPACK, and
- 2. UN number, and
- 3. Proper shipping name



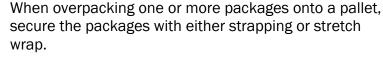
When overpacking a Smokeless Powder package with Limited Quantity product(s) into a protective outer package, apply the following:

Hazard Label:

1. 1.4C hazard label

Marks:

- 1. Limited Quantity, and
- 2. OVERPACK, and
- 3. UN number, and
- 4. Proper shipping name



If the marks or label can't be seen, e.g., when using black or other opaque stretch wrap, apply the following:

Hazard Label:

1. 1.4C hazard label

Marks:

- 1. OVERPACK, and
- 2. UN number, and
- 3. Proper shipping name

If transparent stretch wrap is used, and you can see the 1.4C hazard label, UN number and proper shipping name at least once through the stretch wrap, then no action is required.



SHIPPING PAPER REQUIREMENTS

Each person who offers a hazardous material for transportation shall describe the material on the shipping paper in the manner required under <u>49 CFR § Part 172; Subpart C – Shipping Papers</u>. A standard Bill of Lading (BOL) may be augmented with the required hazmat information. No particular format is required except, but certain details are required in a certain way. Additionally:

- Shipping papers must be legible and printed (handwritten or printed) in English.
- Do not use any code or abbreviations, unless authorized. Abbreviations may be used for packaging types (e.g., "bx" for boxes, "drm" for drums) and units of measurement (e.g., "lbs"), provided they are commonly accepted and recognizable.
- Shippers are required to retain a paper or electronic copy of the shipping paper for 2 years following the date of acceptance by the carrier and must be available to an authorized official upon request.

Citation: <u>49 CFR § 172.200(a)</u>; <u>49 CFR § 172.201</u>;

Completing a Bill of Lading

The BOL sections that are highlighted below are required sections, however the sections may appear in different locations depending on the Bill of Lading form being used. All other non-highlighted fields are optional.

General Information

- The shipper's name and address should appear on the shipping paper. Alternatively, a contract number must appear with the emergency response phone number.
- 2. Enter the **DATE**
- Enter the number of PAGES. If there are more materials being shipped than there is space for on the BOL, attach additional pages as necessary. The shipper must ensure the document reflects Page [X] of [Y] pages.

Company Name	STRAIGHT BILL OF LADING
Address	SHORT FORM - Original - Not Negotiable
City, State, Zip	DATE 1/1/2024
	PAGE 1 of 1
indicated below, which said company (the word company being understood th property under the contract) agrees to carry to its usual place of delivery at sai carrier on the route to said destination. It is mutually agreed, as to each carrier cach party at any time interested in any or all of said property, that every scrit	mit and conditions of contents of packages unknown), motical, consigned, and destined as receiptout bits contract as menting any person or corporation in passesion of the id destination, it on its own road or its own water line, otherwise to deliver to another of all or any said property over all or any portion of said route to destination, and as to te to be performed hereinder shall be subject to all the conditions not prohibiled by law, rt (1035), which are hereby agreed to by the shipper and accepted for himself and his.
SHIP FROM	BILL OF LADING NUMBER
Company Name	
Address	
City, State, Zip	
SHIP TO	CARRIER NAME
Company Name	
Address	TRAILER NO
City, State, Zip	
	SEAL NUMBER (S)
SPECIAL INSTRUCTIONS	
Enter any special instructions for this specific shipment here.	

- Include an Emergency Response
 Telephone Number and the name of the service. Enter a contract number if the shipper's name is not on the shipping paper (e.g., when prepared by a third party).
- 5. Include the Shipper's Certification (<u>49 CFR § 172.204(a)(1)</u>). Use this text exactly: "This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation." A different version for international shipments is available (.e.g., USA and Canada or Mexico).
- 6. Must be legibly signed by a representative (e.g., employee) of the shipper, whether manually or pre-printed.

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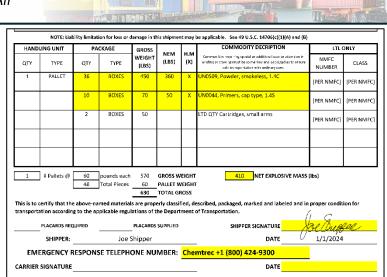
Placement of Dangerous Goods Information

Dangerous goods must be differentiated from non-dangerous goods on the shipping paper. There are three options:

- 1. Group all the dangerous goods together before the non-dangerous goods; or
- 2. Use a contrasting color for the dangerous goods; or
- 3. Include a column captioned "HM" and place an "X" in that column for each dangerous good.

Shipping Description

The following information must appear in order with no other information interspersed:



- 1. UN number, proper shipping name, hazard class or division, packing group.
 - 1. For example, UN 0509, Powder, smokeless, 1.4C. There is no packing group, and it is noncompliant to include one.
- 2. Information required before or after the Shipping Description:
 - 1. Quantity & Description of Dangerous Goods
 - The number and type of packages must be indicated. The type of packages must be indicated by description of the package (for example, "36 boxes").
 - 2. Weight
 - The total amount of hazardous materials covered by each description must be indicated with the applicable unit of measurement, for example, "360 pounds"
 - For Class 1 materials, the quantity must be the net explosive mass, but in the US only this is the net weight of the explosives. Therefore, use the net weight. The gross weight of the shipment may be shown elsewhere on the shipping paper.

TRANSPORT DATA SHEET POWDER, SMOKELESS Mode of Transportation: US Domestic Ground & Air

Completed Bill of Lading

Address							SHORT FORM - Orig	inal - Not N	legotiał
City, State, Zip							DATE		2024
,, ətu								PAGE	
indicated b property u carrier on t each party	elow, which said nder the contract he route to said at any time inter	company (t) agrees to destination rested in an	the word comp carry to its usu . It is mutually a y or all of said p	any being u al place of d greed. as to roperty, tha	nderstood I elivery at s each carrie at every ser	through aid dest er of all vice to b	d conditions of contents of packages unknown), mar out this contract as meaning any person or corporati ination, it on its own road or its own water line. othe or any said property over all or any portion of said rc pe performed hereunder shall be subject to all the co 5) which are hereby agreed to by the shipper and ac	on in possession rwise to deliver oute to destination inditions not pro	of the to another on, and as to hibited by la
SHIP FR	ом						BILL OF LADING NUMBER		
Compar	ny Name								
Address									
City, Sta	te, Zip								
SHIP TO	l					ĺ			
Compar	ny Name								
Address							TRAILER NO		
City, Sta	te, Zip								
							SEAL NUMBER (S)		
CDECIAL	INCOM								
	. INSTRUCTIO y special instr NOTE: Liab	uctions fo		•		nt may l	be applicable. See 49 U.S.C. 14706(c)(1)(A) and (B)		
Enter an	y special instr	uctions fo		lamage in ti GROSS	his shipmer		COMMODITY DECRIPTION		DNLY
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Citation: Appendix A to Part 1035 – Uniform Straight Bill of Lading; 49 CFR Part 172 – Subpart C Shipping Papers

PLACARDS

Each motor vehicle, transport vehicle or freight container must be placard in accordance with 49 CFR 172 Subpart F - Placarding.

- When exceeding 1,000 pounds gross weight of Table 2 dangerous goods in a transport conveyance, placards must be placed on all four sides of the freight container, transport vehicle (e.g., trailer) or straight truck.
 - The shipper must provide the required placards to the motor carrier upon demand.
 - If more than one division of class 1 explosives are being shipped in the same transport vehicle or freight container, display the lowest division number.
 - If more than 2 different medium or low hazard (Table 2) dangerous goods requiring different placards are being transported in the same transport vehicle or freight container, the carrier may substitute the placard with the DANGEROUS placard. Dangerous goods exceeding 1,000 pounds per placard type require their normal placard.
- Placards can be made of plastic, metal or other material capable of withstanding a 30-day exposure to open weather conditions and coloring on the placard withstand a 72-hour fadeometer test.
- Placards must be at least 250 mm (9.84 inches) on each side, placed square on point, and must have a 12.5 mm solid line inside and parallel to the edge.
- Placards must be in good condition and unobscured.
- Reference the general placarding requirements in Table 1 and Table 2 below.

49 CFR § 172.504 GENER	49 CFR § 172.504 GENERAL PLACARDING REQUIREMENTS Table 1						
Category of material Hazard class or division number and additional description, as appropriate	Placard name	Placard design section reference (49 CFR §)					
1.1	EXPLOSIVES 1.1	172.522					
1.2	EXPLOSIVES 1.2	172.522					
1.3	EXPLOSIVES 1.3	172.522					
2.3	POISON GAS	172.540					
4.3	DANGEROUS WHEN WET	172.548					
5.2 (Organic peroxide, Type B, liquid or solid, temperature controlled)	ORGANIC PEROXIDE	172.552					
6.1 (material poisonous by inhalation (see § 171.8 of this subchapter))	POISON INHALATION HAZARD	172.555					
7 (Radioactive Yellow III Label only)	RADIOACTIVE*	172.556					
ADVISOR	ity of these hazardou require placarding. FR § 172.504 for additional i						

Category of material Hazard class or division number and additional description, as appropriate	Placard name	Placard design section reference (49 CFR §)
1.4	EXPLOSIVES 1.4	172.523
1.5	EXPLOSIVES 1.5	172.524
1.6	EXPLOSIVES 1.6	172.525
2.1	FLAMMABLE GAS	172.532
2.2	NON-FLAMMABLE GAS	172.528
3	FLAMMABLE	172.542
Combustible liquid	COMBUSTIBLE	172.544
4.1	FLAMMABLE SOLID	172.546
4.2	SPONTANEOUSLY COMBUSTIBLE	172.547
5.1	OXIDIZER	172.550
5.2 (Other than organic peroxide, Type B, liquid or solid, temperature controlled)	ORGANIC PEROXIDE	172.552
6.1 (other than material poisonous by inhalation)	POISON	172.554
6.2	NONE	N/A
8	CORROSIVE	172.558
9	CLASS 9 (scc § 172.504(f)(9))	172.560
ADVISOR aggregate gro	ore than 454 kg (1,0 oss weight of the list ods require placardi	ed dangerous

Citation: <u>49 CFR § 172 Subpart F – Placarding</u>