



# **National Motor Freight Classification®**

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**Supplement 4 to NMF 100-AS**  
*(Supplements 1, 2, 3 and 4 contain all changes)*

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Issued by:  
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Carriers and other transportation companies who use or refer to any provisions of the National Motor Freight Classification® are required to be bona fide participants in the Classification.

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**PARTICIPATING MEMBER INTERSTATE CARRIERS**

*The following NMFTA member carriers are participants in or licensed to participate in this Classification for interstate, intrastate and foreign commerce under authority of powers of attorney issued to National Motor Freight Traffic Association, Inc., Agent or licenses issued by the National Motor Freight Traffic Association, Inc. The provisions of this Classification are limited to intrastate application within the states where the carrier is authorized to operate.*

SCAC	CARRIER NAME and DOMICILE	U.S. DOT Number	MC Number
⊕★AKFE	Alaska Freight Express, LLC, Auburn, WA .....	272017	169075
⊕★ALUK	Allstates Trucking, Inc., Oak Creek, WI.....	323887	173940
⊕★AGTC	ATG Transportation LLC, Lakeland, FL .....	1851840	670535
⊕★BSPC	Brothers Superior Services, LLC, Fort Wayne, IN .....	1379936	526395
▲GDGO	▲Groupe Dicom Transport Canada, Dorval, QC, Canada .....	2628421	875446
⊕★MSNT	Midnight Sun Transportation Services, LLC, Anchorage, AK .....	309261	538408
⊕★REFC	Reface, Red Oak, TX .....	2554248	1032646

**PARTICIPATING FREIGHT FORWARDER LICENSEES**

*The following freight forwarders are licensed to participate in this Classification under authority of powers of attorney issued to National Motor Freight Traffic Association, Inc., Agent or licenses issued by the National Motor Freight Traffic Association, Inc.*

SCAC	CARRIER NAME and DOMICILE	U.S. DOT Number	FF Number
⊕★CUWE	Cargo Unlimited Worldwide, Palm Desert, CA .....	---	FF3654

**PARTICIPATING GOVERNMENT TRAFFIC LICENSEES**

*The following carriers and brokers are licensed to participate in this Classification under authority of powers of attorney issued to National Motor Freight Traffic Association, Inc., Agent or licenses issued by the National Motor Freight Traffic Association, Inc. The participation of each carrier or broker named herein is limited to U.S. Government traffic only moving under contracts and tenders of service as provided in Section 13712 of the Interstate Commerce Commission Termination Act of 1995 [49 U.S.C. §13712].*

SCAC	CARRIER NAME and DOMICILE	U.S. DOT Number	MC or FF Number
⊕★TSMT	Tri-State Motor Transit Co., Bed Rock, Inc., d/b/a, Joplin, MO .....	1007292	427719

**PARTICIPATING BROKER LICENSEES**

*The following interstate brokers are licensed to participate in this Classification under authority of powers of attorney issued to National Motor Freight Traffic Association, Inc., Agent or licenses issued by the National Motor Freight Traffic Association, Inc. The participation of each broker named herein is limited, on interstate, intrastate and foreign commerce, to provisions of this Classification applying on the articles and commodities for which the broker is authorized to arrange transportation.*

SCAC	BROKER NAME and DOMICILE	U.S. DOT Number	MC or FF Number
⊕★BLBM	Boomer Logistics Corporation, Toronto, ON, Canada .....	2941993	995135

**PARTICIPATING SHIPPER LICENSEES**

*The following shippers are licensed to participate in this Classification with the carriers listed below under licenses issued by the National Motor Freight Traffic Association, Inc.*

*⊕★Under the terms of an agreement reached between NMFTA and Central Steel & Wire Company, non-participating carriers listed below are permitted to use the provisions in the Classification exclusively in connection with their services provided to the above named shipper under contracts or rate schedules with the named shipper only:*

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>Ace Doran Rigging And Hauling</li> <li>Alvan Motor Freight, Inc.</li> <li>American Transport, Inc.</li> <li>Annett Holdings</li> <li>Area Transportation Co.</li> <li>Ashley Transport, Inc.</li> <li>B V D Trucking</li> <li>Barnes Transportation Services, Inc.</li> <li>BAX Global</li> <li>BESL Transfer Co.</li> <li>Bulk Transport Corp</li> <li>Burnham Trucking Company</li> <li>C Bean Transport, Inc.</li> <li>C T Holding, Inc.</li> <li>C W Murphy Freightline, Inc.</li> <li>Cardinal</li> <li>Chief Freight Lines, Inc.</li> <li>Claude LaFrenier Trucking, Ltd.</li> <li>CRST Flatbed Regional, Inc.</li> <li>CRST Logistics</li> <li>Custom Expedite, LLC</li> <li>Dale Zorman</li> <li>Dallas &amp; Mavis Specialized Carrier</li> <li>Dan Swing</li> <li>Decker Truck Line, Inc.</li> <li>Devall Trucking, Inc.</li> <li>Distribution Technologies, Inc.</li> <li>E W Wylie Corp</li> <li>Edwards Distribution Group Llc</li> <li>Edwards Transfer Storage Co.</li> <li>Evans Equipment Co., Inc.</li> <li>Falcon Transport Co.</li> <li>Fedex Custom Critical</li> <li>Fisher Enterprises, Inc.</li> <li>Galto Trucking, Inc.</li> <li>Graber Trucking, Inc.</li> <li>Great American Lines, Inc.</li> <li>Great Lakes Transportation</li> <li>Greentree Transportation Co.</li> <li>H &amp; W</li> <li>Hornady Truck Line, Inc.</li> <li>International Freight Systems</li> <li>J L Shandy Transportation, Inc.</li> <li>JBT Logistics, Inc.</li> <li>JBT Service, Inc.</li> <li>Kaplan Trucking Co.</li> <li>Ken Graham Trucking, Inc.</li> <li>KKD Enterprises, Inc.</li> <li>L R Hiller, Inc.</li> <li>Lewis Transportation Systems, Inc.</li> <li>M C Bunch, Inc.</li> <li>M C Trucking Co.</li> </ul> | <ul style="list-style-type: none"> <li>M T I Trucking, Inc.</li> <li>Magic Transportation</li> <li>Mansur Trucking, Inc.</li> <li>Mayer Truck Line</li> <li>Mid America Express Inv</li> <li>Mid Seven Transportation Co.</li> <li>Modular Transportation Co.</li> <li>Nealon Transportation, Inc.</li> <li>Nelson Truck Equipment Service</li> <li>Nelson Trucking Service, Inc.</li> <li>Northern Freight Service, Inc.</li> <li>Nowiock Brothers Trucking, Inc.</li> <li>P I I Motor Express, Inc.</li> <li>Parker Motor Freight</li> <li>PGT Trucking, Inc.</li> <li>Purolator</li> <li>Pyles Trucking Co.</li> <li>R C Seppala Trucking, Inc.</li> <li>R.H. Hummer Jr, Inc.</li> <li>Rediehs Interstate</li> <li>Rediehs Transit Line, Inc.</li> <li>Riechmann Transport, Inc.</li> <li>Roehl Transport, Inc.</li> <li>Rogers Transport, Inc.</li> <li>R-Own Express, Inc.</li> <li>Ruan Transportation</li> <li>Service Transport</li> <li>Shelton Trucking Service, Inc.</li> <li>Smithway Motor Xpress, Inc.</li> <li>Special Logistics, Inc.</li> <li>Stan Koch Sons Trucking, Inc.</li> <li>Steel &amp; Machinery Transport, Inc.</li> <li>Steel Transport, Inc.</li> <li>Sterling Express, Ltd</li> <li>Steve Robinson Transportation</li> <li>Straight Shot Express, Inc.</li> <li>Strong Trucking, Inc.</li> <li>Sun Steel Express, Inc.</li> <li>Supreme Express, Inc.</li> <li>T F Trucking Co</li> <li>T H Trucking</li> <li>Tantara Transportation Corp.</li> <li>Tartar Express, Inc.</li> <li>TCBX</li> <li>Tennessee Steel Haulers, Inc.</li> <li>TMC Transportation, Inc.</li> <li>Transport Clearing East</li> <li>Tri-Union Express, Inc.</li> <li>TTI, Inc.</li> <li>U A Genso Cartage Co</li> <li>United Parcel Service</li> <li>Utley, Inc.</li> </ul> |
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**CUMULATIVE LIST OF ITEMS AND NUMBERED PACKAGES IN SUPPLEMENTS**

*Listed below are items and numbered packages that have been added, amended or brought forward in this supplement and previous supplements.*

ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP
110-A	2	★18417	1	27590-A	4	40020-A	2	43260-A	4	44560-A	1
171-A	2	18419-A	1	27591-A	4	40150-A	2	43270-A	1	44610-A	4
183-C	4	18420-A	1	27765-A	2	41006-A	2	43470-A	1	44650-A	4
203-A	2	18421-A	1	29285-A	2	41007-A	2	43490-A	4	44680-A	4
245-A	1	20000-A	2	29286-A	2	41008-A	2	43510-A	4	44690-A	4
265-B	4	20480-A	2	29287-A	2	41765-A	2	43540-A	4	44700-A	4
280-A	2	20484-A	2	29288-A	2	42460-A	4	43560-A	4	44720-A	4
300-A	1	20580-A	2	29790-A	2	42470-A	4	43570-A	1	44760-A	4
540-A	1	21420-A	4	29792-A	2	42600-A	1	43580-A	4	44810-A	4
595-A	1	21520-A	4	30160-A	2	42603-A	1	43590-A	4	44830-A	4
680-A	4	21540-A	4	33010-A	2	42604-A	1	43600-A	1	44840-A	1
2070-A	2	21640-A	4	33070-A	2	42610-A	1	43610-A	4	44850-A	1
2071-A	2	21840-A	2	33075-A	2	42620-A	4	43660-A	4	44853-A	1
4620-A	1	21841-A	2	33800-A	2	42640-A	1	43680-A	4	44855-A	4
★4621	1	22260-A	2	33801-A	2	42645-A	1	43770-A	4	44860-A	1
4622-A	1	23340-A	2	33880-A	1	42647-A	4	43850-A	4	44867-A	4
4623-A	1	23420-A	4	★33881	1	42648-A	4	43940-A	4	44900-A	4
11080-A	2	23490-A	2	34282-A	1	42650-A	1	43942-A	4	44910-A	4
12540-A	4	23500-A	2	34290-A	4	42660-A	1	43950-A	4	45000-A	4
12980-A	4	24400-A	2	34291-A	4	★42661	1	43970-A	1	45040-A	4
13120-A	2	24402-A	2	34292-A	4	42670-A	1	43980-A	4	45050-A	4
13121-A	2	25328-A	2	34500-A	1	42680-A	1	44040-A	4	45060-A	4
14560-A	2	25840-A	2	35000-A	1	42690-A	1	44060-A	4	45090-A	4
14620-A	2	★25841	2	★35001	1	42692-A	1	44070-A	4	45120-A	4
15220-A	1	25930-A	2	★35002	1	42694-A	1	44110-A	4	45250-A	1
★15221	1	★25970	4	35255-A	2	42696-A	1	44170-A	4	45260-A	4
15380-A	1	★25971	4	35350-B	2	42698-A	1	44220-A	1	45280-A	1
15382-A	1	26460-A	4	35380-A	2	42699-A	1	44225-A	4	45300-A	1
15420-A	1	26500-A	4	35850-A	2	42702-A	1	44230-A	4	45325-A	4
15520-A	2	26520-A	4	37370-A	2	42703-A	1	44250-A	1	45380-A	4
15522-A	2	26521-B	4	37504-A	4	42704-A	1	44260-A	1	45400-A	4
15523-A	2	26522-A	4	37610-A	4	42710-A	1	44320-A	4	45410-A	4
15524-A	2	26525-B	4	37612-A	4	42720-A	1	44330-A	1	45420-A	4
15525-A	2	26710-A	4	38030-A	4	42740-A	4	44380-B	4	45430-A	4
16280-A	1	★26720	4	★38035	4	42780-A	4	44381-A	4	45465-A	4
★16281	1	★26721	4	★38036	4	42790-A	4	44420-A	1	45470-A	1
17670-A	4	26900-A	2	★38037	4	42800-A	4	44425-A	1	45480-A	4
17870-A	2	27200-A	2	38040-A	4	42850-A	4	44430-A	1	45613-A	4
18260-B	2	27320-A	4	38041-A	4	42890-A	4	44440-A	1	45680-A	4
18262-B	2	27414-A	4	38050-A	4	42920-A	4	44450-A	1	45710-A	4
18265-B	2	27430-A	4	38176-A	4	42980-A	4	44460-A	4	45750-A	4
18266-B	2	27440-A	4	38180-A	4	42990-A	4	44470-A	1	45790-A	4
18267-B	2	27442-A	4	39270-A	2	43000-A	4	44480-A	4	45800-A	4
18268-B	2	27450-A	4	39272-A	2	43140-A	4	★44500	1	45870-A	4
18405-A	1	27452-A	4	39515-A	2	43160-A	1	★44501	1	45880-A	4
18407-A	1	27520-A	4	39810-A	2	43180-A	4	44510-A	1	45930-A	4
18410-A	1	27521-A	4	39811-A	2	43200-A	4	44520-A	4	45970-A	1
★18415	1	27522-A	4	39920-A	2	43210-A	4	44540-A	1	45972-A	1
★18416	1	27524-A	4	39921-A	2	43230-A	4	44550-A	4	45974-A	1

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ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP
45976-A	1	47210-A	4	56040-A	2	59020-A	1	61701-A	2	70661-A	2
45980-A	1	47230-A	1	56041-A	2	59040-A	4	★61805	2	70662-A	2
45990-A	1	47240-A	1	56042-A	2	59070-B	4	★61806	2	70970-A	2
46000-A	4	47260-A	1	56290-A	2	59080-A	4	61870-A	1	71500-A	2
46010-A	1	47370-A	4	56291-A	2	59090-A	4	61872-A	1	71520-A	2
46020-A	1	47400-A	4	56292-A	2	59100-A	4	★62190	4	71560-A	2
46023-A	4	47500-A	2	56293-A	2	59140-A	4	★62191	4	71570-A	2
46030-A	1	47501-A	2	56294-A	2	59200-A	4	62270-A	2	71572-A	2
★46031	1	47650-A	1	56295-A	2	59250-A	4	62271-A	2	★72030	4
46032-A	1	★47651	1	56660-A	4	59260-A	4	63150-A	2	★72031	4
46040-A	4	48395-A	2	56785-A	2	59270-A	4	63151-A	2	72040-A	2
46045-A	4	49160-A	2	56786-A	2	59300-A	4	63160-A	2	★72041	4
46060-A	4	49162-A	2	56790-A	2	59310-A	4	63161-A	2	72120-A	4
46160-A	4	49237-A	2	56791-A	2	59312-A	4	63162-A	2	★72170	1
46170-A	4	49265-A	2	56792-A	2	59320-A	2	63163-A	2	★72171	1
46190-A	4	49266-A	2	56828-A	2	59322-A	2	63285-A	2	★72285	4
46200-A	4	49267-A	2	★56834	2	59360-A	2	63300-A	2	72620-A	4
46270-A	4	49390-B	2	56910-A	4	59380-A	4	63303-A	2	72680-A	2
46290-A	4	49391-A	1	56911-A	4	59382-A	4	63310-A	2	72681-A	2
46340-A	4	49392-A	2	56960-A	2	59384-A	4	63590-A	4	72730-A	1
46350-A	4	49880-A	2	56995-A	4	59420-B	2	64400-A	4	72790-A	4
46400-A	4	49881-A	2	56996-A	4	59421-B	4	67900-A	2	72792-A	4
46480-A	4	49885-A	2	57060-A	2	59422-B	2	67990-A	2	72860-A	4
46530-A	4	49886-A	2	57070-A	2	59424-B	2	67992-A	2	72910-A	1
46580-A	4	49983-A	4	57071-A	2	59425-B	2	68090-A	2	★72911	1
46610-A	4	49984-A	4	57072-A	2	59460-A	4	68310-A	2	72912-A	1
46620-A	4	50000-A	2	57100-A	4	59480-A	4	68311-A	2	72914-A	1
46640-A	4	50020-A	4	57101-A	4	60000-B	4	69020-A	2	72916-A	1
46660-A	4	50023-A	4	57102-A	4	60002-B	4	69100-A	2	72917-A	1
46720-A	4	50086-A	4	57157-A	2	60004-B	4	69101-A	2	72918-A	1
46780-A	4	★50087	4	57158-A	2	60260-A	4	69102-A	2	72932-A	4
46820-A	4	50155-A	4	57410-A	2	60280-A	4	69103-A	2	73185-A	1
46830-A	1	50157-A	4	57411-A	2	60535-A	2	69420-B	4	73186-A	1
46840-A	4	50175-A	4	58500-A	2	60536-A	2	69422-B	4	73200-A	4
46920-A	4	50475-A	1	58520-A	4	60538-A	2	69423-B	4	73227-A	4
46930-A	4	★50476	1	58540-A	4	60790-A	4	69430-A	4	73228-A	4
47010-A	4	51035-A	1	58542-A	4	60810-A	4	69440-A	4	73229-A	4
47030-A	4	51036-A	1	58560-A	4	60812-A	4	69442-A	4	73230-A	4
47040-A	4	51140-A	2	58610-A	4	60860-A	4	69457-A	4	73231-A	4
47050-A	4	52880-A	2	58670-A	4	60940-A	4	70050-A	2	73232-A	4
47060-A	1	52895-A	4	58692-A	4	60960-A	4	70051-A	2	73233-A	4
47070-A	4	52896-A	4	58710-A	4	60980-A	4	70540-A	2	73234-A	4
47100-A	4	52900-A	2	58770-A	4	61045-A	2	70560-A	2	73235-A	4
47110-A	4	52901-A	2	58772-A	4	61046-A	2	70580-A	2	73236-A	4
47120-A	4	52902-A	2	58773-A	4	61480-A	2	70600-A	2	73237-A	4
47130-A	4	52930-A	4	58820-A	4	61482-A	2	★70610	2	73380-A	4
47140-A	4	★52960	2	58900-A	4	61490-A	2	★70611	2	74030-A	4
47150-A	4	53025-A	2	58920-A	4	61492-A	2	70650-A	2	74032-A	4
47190-A	1	53026-A	2	58960-A	4	61700-A	2	70660-A	2	★74510	4

Only participants in the NMFC at the time the transportation occurs may use the provisions herein.  
 For explanation of abbreviations and reference marks, see last page of this Supplement. ©NMFTA 2019

**CUMULATIVE LIST OF ITEMS AND NUMBERED PACKAGES IN SUPPLEMENTS**

*Listed below are items and numbered packages that have been added, amended or brought forward in this supplement and previous supplements.*

ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP
★74700	4	★86070	4	109700-B	4	127200-A	2	150392-A	2	161200-A	4
★74737	4	★86071	4	109701-B	4	127220-A	2	152220-A	4	161210-A	4
74800-A	2	★86072	4	109702-B	4	128000-A	1	152660-A	2	161220-A	4
74801-A	2	87700-A	2	109703-B	4	132680-A	2	153900-A	2	161240-A	4
74880-A	2	88160-A	2	109704-B	4	132681-A	2	153901-A	2	162190-A	1
74881-A	2	88161-A	2	109705-B	4	132682-A	2	153902-A	2	162470-A	1
75450-A	1	90930-A	4	109706-B	4	133950-A	2	155126-A	1	162680-A	1
★75451	1	91140-A	4	109800-A	4	133951-A	2	155150-A	1	162813-A	2
75480-A	4	91160-A	4	109950-A	2	134140-A	2	155151-A	1	162817-A	2
75490-A	4	91180-A	4	109951-A	2	135380-A	4	155152-A	1	162870-A	4
75550-A	4	91200-A	4	111180-A	4	135530-A	4	155250-A	1	163030-A	4
76580-A	2	91220-A	4	111230-A	1	136040-A	4	155251-A	1	164390-A	2
76581-A	2	91240-A	4	111231-A	1	136140-A	4	★155252	1	164391-A	2
79460-A	2	91260-A	4	★111232	1	136740-A	1	155255-A	1	164393-A	2
79469-A	4	91262-A	4	★111233	1	136742-A	1	155440-A	1	164394-A	2
★79545	1	91380-A	4	111450-A	1	★136750	1	155850-A	2	168815-A	2
79550-A	1	91400-A	4	★111451	1	136760-A	1	156240-A	1	169320-A	4
★79551	1	91420-A	4	114000-A	4	136762-A	1	★156241	1	169340-A	4
79552-A	1	91440-A	4	114012-A	4	137375-A	1	156600-B	2	169342-A	4
79553-A	1	91480-A	4	114014-A	4	138360-A	4	156602-B	2	170060-A	4
79554-A	1	91500-A	4	114018-A	4	138460-A	1	156603-B	2	★170061	4
80380-A	2	91520-A	4	114022-A	4	138461-A	1	156604-B	2	170080-A	1
80440-A	2	91540-A	4	114024-A	4	★138462	1	156770-A	1	★170081	1
80441-A	2	91560-A	4	114130-A	2	144640-A	4	156771-A	1	170580-A	2
80442-A	2	91780-A	4	114131-A	2	144660-A	4	157242-A	2	170582-A	2
80443-A	2	92800-A	2	115985-A	2	144680-A	1	157243-A	2	170583-A	2
80444-A	2	95190-A	2	115987-A	2	144700-A	4	157320-A	2	170700-A	2
80445-A	2	98390-A	2	116030-A	2	144760-A	1	157342-A	2	170720-A	2
80446-A	2	★98720	2	116031-A	2	144780-A	4	157344-A	2	170740-A	2
80580-A	2	99820-A	4	116033-A	2	144840-A	1	157346-A	2	170760-A	2
80581-A	2	100241-A	4	116034-A	2	144940-A	4	158260-A	2	170780-A	2
80582-A	2	100244-A	4	116035-A	2	145210-A	1	158261-A	2	170800-A	2
80583-A	2	100245-A	4	116036-A	2	145250-A	1	158880-A	2	170820-A	2
80584-A	2	100250-A	4	116037-A	2	145260-A	1	158881-A	2	170840-A	2
81740-A	2	100251-A	4	118150-A	2	145330-A	1	158882-A	2	170860-A	2
81741-A	2	101425-A	2	118152-A	2	145550-A	2	159506-A	2	170880-A	2
82100-A	2	101720-A	1	★119750	2	149200-A	2	161100-A	4	170900-A	2
82101-A	2	★101721	1	★119751	2	149240-A	2	161120-A	4	170920-A	2
82102-A	2	103300-A	2	123820-A	4	149242-A	2	★161145	4	170940-A	2
82103-A	2	103301-A	2	123840-A	4	149265-A	2	★161146	4	170960-A	2
82270-A	2	108107-A	2	123842-A	4	149269-A	2	★161147	4	170980-A	2
82271-A	2	108108-A	2	123860-A	4	149610-A	1	★161148	4	171000-A	2
82285-A	2	108109-A	2	124660-A	2	149612-A	1	161150-A	4	171020-A	2
82286-A	2	108520-A	2	124661-A	2	149980-A	1	161152-A	4	171040-A	2
82790-A	2	108522-A	2	125850-A	2	149981-A	1	161153-A	4	171060-A	2
83270-A	2	109095-A	2	125851-A	2	★149982	1	161154-A	4	171080-A	2
84260-A	2	109096-A	2	125852-A	2	150220-A	1	161160-A	4	171120-A	2
84261-A	2	109110-A	4	125853-A	2	150390-A	2	161170-A	4	171140-A	2
85380-A	2	109112-A	4	126157-A	2	150391-A	2	161180-A	4	171160-A	2

**CUMULATIVE LIST OF ITEMS AND NUMBERED PACKAGES IN SUPPLEMENTS**

*Listed below are items and numbered packages that have been added, amended or brought forward in this supplement and previous supplements.*

ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP	ITEM	SUP
171180-A	2	176050-A	2	181921-A	2	187120-A	2	190222-A	2	500100-A	4
171200-A	2	176051-A	2	181990-A	2	★187130	4	194120-A	2	★600100	4
171410-A	4	176052-A	2	181991-A	2	187470-A	1	195310-A	2	★600200	4
172180-A	4	176053-A	2	182130-A	2	★187471	1	195314-A	2	★600300	4
172670-A	2	176054-A	2	182131-A	2	187645-A	2	195520-A	1	PACKAGE	SUP
172671-A	2	177320-A	2	183630-A	2	187682-A	2	196180-A	1	392	4
172990-A	4	177670-A	2	183632-A	2	188560-A	2	★196181	1	513	1
173740-A	4	177674-A	2	183635-A	2	188561-A	2	196580-A	4	574	1
174002-A	4	177684-A	2	★183636	2	188690-A	2	196600-A	4	2000	4
174200-A	1	178090-A	2	186590-A	1	189570-A	2	196640-A	4	2287	4
174610-A	2	178530-A	2	186592-A	1	189572-A	2	196720-A	4	2316	4
174611-A	2	178690-A	2	186620-A	2	189574-A	2	196760-A	4	2345	2
174612-A	2	178720-A	4	186621-A	2	189800-A	2	196860-A	4	2430	4
174613-A	2	179180-A	2	186622-A	2	189804-A	2	197720-A	2	2449	4
175120-A	2	179182-A	2	★186640	1	190100-A	4	★197721	2	2462	4
175122-A	2	179570-A	4	★186641	1	190122-A	4	198080-A	2	36F	1
175885-A	2	179960-A	4	186960-A	2	190124-A	4	199970-A	2		
175887-A	2	181920-A	2	186967-A	2	190220-A	2	250100-A	1		



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Article	Item	Article	Item	Article	Item
<b>A</b>		<b>ⓑCooking Equipment, hotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each - specific listing</b> ..... 27590		<b>Furniture:</b>	
ⒶAir Fryers	26720			ⓑOne-half scale display replicas ..... 79469	
ⒶApplesauce	74510			<b>G</b>	
<b>B</b>		<b>ⒶCooktops, indoor type, electric or gas, NOI</b> ..... 26720		<b>ⓑGrates:</b>	
ⒶBaby Food, NOI	72030	<b>Cookware:</b>		ⓑFireplace, with electric heating unit ... 69430	
ⓑBakeware, aluminum, NOI, other than cast, other than expendable	52895	ⓑAluminum, NOI, other than cast, other than expendable ..... 52895		ⓑFireplace, without heating units ..... 69440	
ⒶBakeware, aluminum, NOI, other than expendable	52895	ⒶAluminum, NOI, other than expendable ..... 52895		ⓑTree, reinforced cast concrete ..... 78820	
ⒶBaking Powder	72041	<b>Covers:</b>		ⒶGrates or Grate Baskets, fireplace ..... 69420	
ⒶBarbecue Sauce	74700	ⓑBattery, NOI, asphalt composition, impregnated fiber or rubber ..... 60790		ⒶGrates, tree, reinforced cast concrete ..... 78820	
<b>Baskets:</b>		ⓑBattery, NOI, plastic ..... 60800		ⓑGravy ..... 73227	
ⓑFireplace grate, without heating units ..... 69440		ⒶBattery, NOI, wooden ..... 60810		ⒶGravy, other than dry ..... 74700	
ⒶGrate, fireplace ..... 69420		ⒶBattery, plastic, NOI ..... 60800		<b>Griddles:</b>	
<b>Boxes:</b>		<b>D</b>		ⒶCommercial or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 lbs each ..... 25970	
ⓑBattery, NOI, asphalt composition, impregnated fiber or rubber ..... 60790		ⒶDeep Fryers, commercial or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 lbs each ..... 25970		ⓑHotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each ..... 27590	
ⓑBattery, NOI, plastic ..... 60740		ⓑDeep Fryers, hotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each ..... 27590		<b>Grills:</b>	
ⓑBattery, NOI, steel ..... 60750		ⓑDip, bean ..... 73227		ⒶIndoor type, electric or gas, NOI ..... 26720	
ⓑBattery, NOI, wooden ..... 60810		ⒶDips, food, NOI, other than dry ..... 74700		<b>H</b>	
ⒶBattery, plastic, NOI ..... 60740		ⓑDips, food, prepared, NOI ..... 72790		ⒶHeadsets, virtual reality (VR Headsets) ..... 62190	
ⒶBattery, steel, NOI ..... 60750		<b>Dressing(s):</b>		ⓑHeat Exchangers, fireplace grate type, steel ..... 69457	
<b>Broilers:</b>		ⓑSalad ..... 73227		ⒶHeat Exchangers or Extractors, fireplace grate type ..... 69420	
ⒶCommercial or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 lbs each ..... 25970		ⒶSalad, other than dry ..... 74700		<b>Heaters:</b>	
ⓑHotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each ..... 27590		<b>E</b>		ⓑBaseboard type, electric, other than portable ..... 26500	
<b>Butter(s):</b>		<b>Equipment:</b>		ⒶBaseboard type, electric, other than portable, without blowers or fans .... 26500	
ⒶNut or seed, including peanut ..... 72285		ⒶCooking, commercial or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 lbs each - specific listing ..... 25970		ⓑDisc, electric ..... 27440	
ⓑPeanut ..... 73227		ⓑCooking, hotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each - specific listing ..... 27590		ⓑFireplace grate type ..... 69420	
<b>C</b>		<b>Exchangers:</b>		ⓑWall insert type, electric, other than portable ..... 26500	
ⒸCatsup ..... 74700		ⒶHeat, fireplace grate type ..... 69420		ⒶWall insert type, electric, other than portable, without blowers or fans .... 26500	
<b>Cement(s):</b>		ⓑHeat, fireplace grate type, steel ..... 69457		ⓑHorseradish, prepared ..... 74700	
ⓑRoofing ..... 170040, 170060		<b>Extractors:</b>		ⓑHot Plates, cooking, electric ..... 27440	
ⒶRoofing, NOI, not required by DOT to bear a Hazard Class or Hazard Division label ..... 170060		ⓑHeat, fireplace grate type ..... 69420		ⒶHot Sauce ..... 74700	
ⒶRoofing tile ..... 170040		<b>F</b>		ⒶHotplates, cooking, electric or gas ..... 26720	
ⒸCheese Spreads ..... 74700		ⓑFlashlights, electric, hand held, with power supply cord ..... 109110		<b>J</b>	
<b>Compound(s):</b>		ⓑFlashlights, electric, hand, NOI ..... 109800		ⓑJars:	
ⓑBleach assistant ..... 50086		ⒶFlashlights, electric, handheld, NOI ..... 109800		ⓑBattery, glass ..... 87650	
ⒶBleach assistant, NOI, not required by DOT to bear a Hazard Class or Hazard Division label ..... 50086		ⒶFlashlights, electric, handheld, with power supply cord ..... 109110		ⓑBattery, rubber ..... 60860	
ⒶCondiments, NOI ..... 74700		<b>Food(s):</b>		ⓑNOI, glass, other than cut ..... 87700	
ⒶConvection Ovens, electric or gas ..... 26720		ⓑBaby ..... 73227		ⒶJars, battery, glass ..... 87650	
<b>Cookers:</b>		ⒶBaby, NOI ..... 72030		ⒶJars, NOI, glass, other than cut ..... 87700	
ⒶCommercial or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 lbs each ..... 25970		ⒶFryers, commercial or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 lbs each ..... 25970		<b>K</b>	
ⓑHotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each ..... 27590		ⓑFryers, hotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each ..... 27590		ⒸKetchup ..... 74700	
ⒶCooking Equipment, commercial or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 lbs each - specific listing ..... 25970				ⓑKilns:	

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Article	Item	Article	Item	Article	Item
<b>L</b>					
<b>Lanterns:</b>					
ⓑ	Electric, hand, NOI	109800			
Ⓐ	Electric, handheld, NOI	109800			
<b>M</b>					
Ⓐ	Marinades, other than dry	74700			
Ⓐ	Marinara Sauce	74700			
Ⓒ	Mayonnaise	74700			
Ⓐ	Microwave Ovens	26720			
ⓑ	Microwave Ovens, NOI	26710			
<b>Molding(s):</b>					
ⓑ	Banak	38030			
Ⓐ	Building, wood, wood particleboard or medium density fiberboard (MDF)	38035			
ⓑ	Building woodwork	38030, 38040, 38050			
ⓑ	Native wood (pine)	38030			
ⓑ	Obeche	38030			
ⓑ	Ships' joiner work, wooden	38030, 38040, 38050			
ⓑ	Virola	38030			
ⓑ	Wood particleboard	38050			
Ⓐ	Mouldings: see 'Molding(s).'				
Ⓒ	Mustard, prepared	74700			
<b>O</b>					
<b>Ovens:</b>					
ⓑ	Baking, convection or microwave, NOI	26710			
Ⓐ	Cooking, electric or gas	26720			
Ⓐ	NOI, other than cooking	26710			
Ⓐ	Oxygen, recreational, in handheld canisters or containers	86070			
<b>P</b>					
<b>Pans:</b>					
ⓑ	Cast aluminum	52930			
<b>Parts:</b>					
ⓑ	Battery jar, rubber	60860			
Ⓒ	Fireplace grate	69420			
<b>Paste(s):</b>					
ⓑ	Bean	73227			
Ⓒ	Peanut Butter	72285			
ⓑ	Pectin, fruit or vegetable	73227			
Ⓐ	Pectin, NOI	73380			
Ⓐ	Pepper Sauce	74700			
Ⓐ	Pizza Ovens, electric or gas	26720			
Ⓐ	Pizza Sauce	74700			
<b>Plates:</b>					
ⓑ	Hot, cooking, electric	27440			
<b>Poles:</b>					
Ⓐ	Electric railway	161145			
ⓑ	Electric wire or electric railway	161150			
ⓑ	Lamp	161150			
Ⓐ	Lighting	161145			
Ⓐ	Telephone	161145			
ⓑ	Telephone or telegraph	161150			
Ⓐ	Utility	161145			
<b>Posts:</b>					
Ⓐ	Electric railway	161145			
ⓑ	Electric wire or electric railway	161150			
ⓑ	Lamp	161150			
Ⓐ	Lighting	161145			
Ⓐ	Telephone	161145			
ⓑ	Telephone or telegraph	161150			
Ⓐ	Utility	161145			
<b>Pots:</b>					
ⓑ	Cast aluminum	52930			
<b>Powder(s):</b>					
Ⓒ	Baking	72041			
ⓑ	Puree, fruit or tomato	73227			
Ⓐ	Puree, tomato	73227			
Ⓐ	Purees, fruit or vegetable	74510			
<b>R</b>					
<b>Radiators:</b>					
ⓑ	Gas, NOI	27520			
Ⓐ	Gas, NOI, iron or steel	27520			
<b>Ranges:</b>					
Ⓐ	Cooking, electric or gas, NOI	26720			
ⓑ	Electric, NOI, aluminum and iron or steel	27320			
ⓑ	Electric or electric and charcoal, coal, oil or wood, NOI, iron or steel	27450			
Ⓐ	Gas and charcoal, coal, oil or wood combined, NOI, iron or steel	27520			
Ⓐ	Gas, NOI, iron or steel, other than cooking	27520			
ⓑ	Gas or gas and charcoal, coal, oil or wood, NOI, iron or steel	27520			
ⓑ	Hotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each	27590			
Ⓐ	Recreational Oxygen, in handheld canisters or containers	86070			
<b>S</b>					
Ⓐ	Salad Dressing, other than dry	74700			
Ⓐ	Salsa	74700			
<b>Sauce(s):</b>					
Ⓐ	Barbecue	74700			
ⓑ	Basic food	73227			
Ⓐ	Basic food, NOI	74700			
Ⓐ	Cooking, NOI	74700			
Ⓐ	Dipping, NOI	74700			
Ⓐ	Hot	74700			
Ⓒ	Marinara	74700			
Ⓒ	Pepper	74700			
Ⓒ	Pizza	74700			
Ⓐ	Soy	74700			
Ⓒ	Spaghetti	74700			
ⓑ	Spanish	73227			
ⓑ	Table, NOI	73227			
ⓑ	Searchlights, electric, hand held, with power supply cord	109110			
Ⓐ	Searchlights, electric, handheld, with power supply cord	109110			
<b>Sections:</b>					
Ⓐ	Electric railway post or pole	161145			
ⓑ	Electric wire or electric railway post or pole	161150			
ⓑ	Lamp post or pole	161150			
Ⓐ	Lighting post or pole	161145			
ⓑ	Stair, curved or spiral, wood	38176			
ⓑ	Telephone or telegraph post or pole	161150			
Ⓐ	Telephone post or pole	161145			
Ⓐ	Utility post or pole	161145			
<b>Sets:</b>					
ⓑ	Battery	60940, 60960			
<b>Shells:</b>					
Ⓒ	Taco, soft	74737			
Ⓐ	Soy Sauce	74700			
Ⓐ	Spaghetti Sauce	74700			
ⓑ	Spotlights, electric, hand held, with power supply cord	109110			
Ⓐ	Spotlights, electric, handheld, with power supply cord	109110			
<b>Spread(s):</b>					
Ⓒ	Cheese	74700			
<b>Spread(s): (Cont'd)</b>					
Ⓐ	Nut, including peanut	72285			
ⓑ	Peanut	73227			
Ⓒ	Sandwich, NOI	74700			
Ⓐ	Seed	72285			
<b>Stairs:</b>					
Ⓐ	Curved, wood, SU or in SU sections	38176			
ⓑ	Curved, wooden, SU or SU in sections	38176			
Ⓐ	Spiral, wood, SU or in SU sections	38176			
ⓑ	Spiral, wooden, SU or SU in sections	38176			
Ⓐ	Wood, NOI, SU or in SU sections	38180			
ⓑ	Wooden, SU in sections	38180			
<b>Steamers:</b>					
Ⓐ	Commercial or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 lbs each	25970			
ⓑ	Hotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each	27590			
<b>Stoves:</b>					
ⓑ	Cooking, electric, NOI, aluminum and iron or steel	27320			
ⓑ	Cooking, electric or electric and charcoal, coal, oil or wood, NOI, iron or steel	27450			
Ⓐ	Cooking, indoor type, electric or gas, NOI	26720			
Ⓐ	Gas and charcoal, coal, oil or wood combined, NOI, iron or steel	27520			
Ⓐ	Gas, NOI, iron or steel, other than cooking	27520			
ⓑ	Gas or gas and charcoal, coal, oil or wood, NOI, iron or steel	27520			
ⓑ	Hotel, restaurant or institutional type, gas or electric, iron or steel, gross shipping weight exceeding 500 pounds each	27590			
Ⓐ	Stovetops, cooking, indoor type, electric or gas, NOI	26720			
<b>Strapping:</b>					
ⓑ	Box, fiberboard	152220			
Ⓐ	Box or package, synthetic fiber (Cord Strapping) or plastic	179570			
ⓑ	Box or package, synthetic fiber or plastic	179570			
ⓑ	Cord, synthetic fiber	179570			
<b>Straps:</b>					
ⓑ	Box, fiberboard	152220			
<b>T</b>					
Ⓐ	Taco Shells, corn meal, folded, hard	74735			
Ⓐ	Taco Shells, soft	74737			
Ⓐ	Toaster Ovens	26720			
ⓑ	Tortillas	73227			
Ⓐ	Tortillas, soft	74737			
<b>Traps:</b>					
Ⓒ	Bullet	187130			
Ⓒ	Target	187130			
<b>Trim:</b>					
ⓑ	Architectural, cement, concrete, gypsum or plaster, cellulose fiber or glass fiber reinforced	33945			
ⓑ	Automobile body, fender, front end, rear end or roof	18260			
ⓑ	House, wood, NOI	37610			

Only participants in the NMFC at the time the transportation occurs may use the provisions herein.

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Article	Item	Article	Item	Article	Item
<p>Ⓐ Trim, architectural, cement, concrete, gypsum or plaster, cellulose fiber or glass fiber reinforced ..... 33945</p> <p>Ⓐ Trim, automobile body, fender, front end, rear end or roof ..... 18260</p> <p style="text-align: center;"><b>U</b></p> <p>Units:</p> <p>    Ⓞ Heating, electric..... 27430</p>		<b>V</b>		<b>Z</b>	
		<p>Ⓞ Vents, battery, NOI:</p> <p>    Ⓞ Asphalt composition, impregnated fiber or rubber ..... 60790</p> <p>    Ⓞ Plastic..... 60800</p> <p>    Ⓞ Wooden..... 60810</p> <p>Ⓐ Vents, battery, plastic, NOI ..... 60800</p> <p>Ⓐ Vinaigrette ..... 74700</p> <p>Ⓐ Virtual Reality Headsets..... 62190</p> <p>Ⓐ VR Headsets ..... 62190</p>		<p>Ⓞ Zincs, battery ..... 60980</p>	

**RULES**

**ITEM 183-C**

**CCSB-REGISTERED THIRD PARTY PACKAGE TESTING LABORATORIES**

The package testing laboratories named below are registered with the Commodity Classification Standards Board and are qualified to conduct the performance test procedures detailed in Items 180 and 181. For the most up-to-date list of registered labs, please refer to the CCSB's website, www.nmfta.org.

Laboratory	Location	Contact	Phone Number
Advanced Packaging Technology Laboratories, Inc.	Wheeling, IL	Anthony White	847.520.4343
ANAMA Package & Container Testing Services, Inc.	Mamaronock, NY	Anton Cotaj	914.899.3300
★Bureau Veritas Consumer Products Services Vietnam	Ho Chi Minh City, Vietnam	Ryan Nguyen	84.966.357953
Bureau Veritas Shenzhen Company Limited	Guangdong, China	Wingo Chee	86.755.86000151
China Packaging Research & Test Center	Tianjin, China	Wang Qing	86.22.66237185
FedEx Services Packaging Lab	Collierville, TN	Tyler Kenney	901.850.3597
gh Package & Product Testing and Consulting, Inc.	Fairfield, OH	Timothy Glasmeier	513.870.0080
★Intertek Testing Services Shenzhen Ltd.	Shenzhen, Guangdong, China	Michael Zhang	86.755.2602.0286
★Intertek Testing Service Shenzhen Limited, Guangzhou Branch	Guangzhou, Guangdong, China	Bo Wang	86.20.82139764
Multi-Wall Packaging	Danville, VA	Rob Reynolds	434.836.7802
★Outlook Technical Services Vietnam Ltd.	Vietnam	Christine Nguyen	84.774.356.503
Packaging Corporation of America	Mundelein, IL	Brandon Hink	847.388.6034
Performance Testing Laboratories, LLC	Santa Ana, CA	Mary Beth Proctor	714.957.9300
Pro-Pack Testing Laboratory, Inc.	Belleville, IL	Manuel Rosa, Jr.	618.277.1160
Sealed Air	Charlotte, NC	Jonathan Mauer	704.713.9510
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch	Guangdong Province, China	Jack Yao	86.757.22805851
TEN-E Packaging Services, Inc.	Newport, MN	Larry Anderson	651.459.0671
TEN-E Packaging Services, Inc.	High Point, NC	Brent Weber	336.803.4878
UPS Customer Solutions - Package Design and Test Lab	Addison, IL	Jason Twu	630.628.3703
Virginia Tech - Center for Packaging and Unit Load Design	Blacksburg, VA	Laszlo Horvath	540.231.7673
WestRock	Carol Stream, IL	James Rivera	630.384.5237

**ITEM 265-B**

**DEFINITION OF OR SPECIFICATIONS FOR LIFT TRUCK SKIDS, PALLETS OR PLATFORMS**

**Sec. 1. Definition**—Lift truck skids, pallets or platforms are portable platforms, generally having rectangular or square dimensions. Top decks (surfaces) provide a flat load-bearing area and may be of solid, slatted, intersticed  or ribbed construction. Top decks are attached to and supported by multiple stringers (runners) or blocks (posts) sufficient to support the  article(s) loaded thereon.  The lift truck skid, pallet or platform must be designed so as to provide access for fork handling equipment and/or pallet jacks. Lift truck skids, pallets or platforms may or may not have bodies, enclosures, standards, stacking posts or bottom decks, but do not have wheels or casters. Construction may be of solid or composite wood, fiberboard, metal, plastic or any combination thereof. Design material and construction are dependent on load type, planned use, and whether expendable or reusable.

**Sec. 2. Requirements**—Lift truck skids, pallets or platforms must be of sufficient design, size and strength to  ensure the article(s) loaded thereon cannot cause any failure of structural components, and must be able to support a double-tiered load of equal weight and distribution.  Deck boards must be sufficiently close to one another to adequately protect article(s) from underside damage caused by fork handling equipment or pallet jacks, and to prevent article(s) from falling through the deck. The structural integrity of the lift truck skid, pallet or platform must be capable of withstanding the normal rigors of the less-than-truckload environment. Two or more lift truck skids, pallets or platforms must not be used in combination to create or in lieu of a single, appropriately sized platform. See also Item 680, Sec. 7(b).

## RULES

## ITEM 680-A

## PACKING OR PACKAGING—GENERAL

## General

**Sec. 1. (a)** The separate descriptions of articles provide the minimum, acceptable packaging requirements, see Note 1. Numbered packages or other packaging provisions (other than 'DOT Specification Number' packages, for which, see DOT's hazardous materials regulations) are authorized for use only when item descriptions contain reference thereto. The definitions of or specifications for packaging requirements are provided in: (1) Items 200 through 299, (2) numbered packages and (3) Note references. The minimum requirements notwithstanding, articles must be tendered for shipment in such a manner as to withstand the normal rigors of the less-than-truckload environment. Whether or not part of the specific requirements, protective packing forms or other packaging materials must be used where necessary to afford adequate protection against damage to the articles being shipped. Articles or articles and necessary interior packing forms must reasonably occupy the full cubic capacity of the outer shipping container, see Notes 2(a), 3 and 4. Articles unitized or secured on lift truck skids, pallets or platforms must reasonably occupy the full surface area of the lift truck skid, pallet or platform, see Note 2(b) and (c).

**Note 1—**The term 'packaging requirements' as used in this Classification or in tariffs governed thereby means the provisions which specify: (1) the kinds or specifications of the containers, packages or other manner in which the articles shall be packed or protected for shipment, and (2) how the articles shall be packed or protected by or within such containers, packages or other manner.

**Note 2—**

**(a) Reasonable Occupancy of Shipping Container.** Unless otherwise provided, commodities in shipping containers (not containers within containers) shall be deemed to be in compliance when filled to not less than 65 percent of the capacity of such containers. When filled to less than 65 percent of capacity, the gross weight of the container and its contents will be subject to the class applicable to either the container or its contents, whichever is higher.

**(b) Reasonable Occupancy of Lift Truck Skid, Pallet or Platform Deck.** Unless otherwise provided, and except as permitted in paragraph (c), commodities unitized or secured on lift truck skids, pallets or platforms shall be deemed to be in compliance when occupying not less than 65 percent of the full surface area (deck) of the lift truck skid, pallet or platform. The surface area occupied shall be determined by multiplying the greatest straight-line dimensions of length and width of the commodity(ies). Banding, strapping, wrapping or other materials used for securement to the lift truck skid, pallet or platform will not be considered in the determination of occupancy. When less than 65 percent of the surface area of the lift truck skid, pallet or platform is occupied, the gross weight of the lift truck skid, pallet or platform and the commodity(ies) unitized or secured thereon will be subject to the class applicable to either the lift truck skid, pallet or platform or the commodity(ies), whichever is higher.

Any part of the commodity(ies) shipped that may overhang the lift truck skid, pallet or platform will not be used in determining occupancy of the surface area, but will be used in the computation of density. (See Item 110, Sec. 8-8(d).)

**(c) Maximum Allowable Dimensions of Lift Truck Skids, Pallets or Platforms for 'Potentially Unstable Commodities.'** For the purpose of this rule, commodities having an overall height 1.5 times or more their shortest base dimension shall be considered potentially unstable. For such commodities, the lift truck skid, pallet or platform may be of sufficient size to provide adequate stability. The maximum allowable dimensions of the lift truck skid, pallet or platform are determined using the following formulas.

The **Maximum Allowable Length** is the larger result of the following calculations:

$$\text{Maximum Allowable Length (in)} = \text{Commodity's(ies) Height (in)} \times 0.67$$

OR

$$\text{Maximum Allowable Length (in)} = \text{Commodity's(ies) Length (in)} + 12 \text{ (in)}$$

The **Maximum Allowable Width** is the larger result of the following calculations:

$$\text{Maximum Allowable Width (in)} = \text{Commodity's(ies) Height (in)} \times 0.67$$

OR

$$\text{Maximum Allowable Width (in)} = \text{Commodity's(ies) Width (in)} + 12 \text{ (in)}$$

If the lift truck skid, pallet or platform exceeds the maximum allowable length or width, as calculated above, the gross weight of the handling unit will be subject to the class applicable to either the lift truck skid, pallet or platform or the commodity(ies) being shipped, whichever is higher.

**Note 3—**Unless otherwise provided, reels, spools or flanged cores used as shipping containers which are not filled to equal or exceed their weight with a product, will be charged for at the class applicable to the empty spool, reel or flanged core. Reels, spools or flanged cores filled with a product equal to or exceeding the weight of the reel, spool or flanged core will be charged for at the class applicable to the commodity wrapped or wound thereon.

Where the net weight of the product is less than the tare or empty weight of the container, the lower charges applicable to the product may be assessed by declaring, at time of shipment, an increased weight for the shipment equal to two times the tare weight of the reel, spool or flanged core. In such instances, the shipper must declare the following on the bill of lading: (1) the tare or empty weight of each reel, spool or flanged core; (2) the actual gross weight of each shipping container with product as tendered for shipment; and (3) the resultant declared gross weight.

**Note 4—**Unless otherwise provided and unless subject to classes based on density, liquid, powdered or granular commodities or materials packaged in rigid or semirigid primary containers in an authorized outer shipping container must occupy at least 65 percent of the primary container's cubic capacity. When filled to less than 65 percent of the primary container's cubic capacity, the gross weight of the commodity as packaged for shipment will be subject to the class applicable to either the primary container or its contents, whichever is higher. Does not apply when primary inner containers are in intermediate inner containers and then placed in an outer shipping container.

**Sec. 1. (b)** Unless otherwise provided for in the separate descriptions of articles, where classes are provided for 'loose' or 'in bulk,' such classes will also apply on the same articles when in packages; or if no packing or form of acceptance is mentioned, the classes will also apply on the same articles when loose or in packages. See also Secs. 5(a) and (b).

**Carrier's Option to Accept or Refuse**

**Sec. 2.** Except as provided in Item 423, whether or not the authorized minimum packing requirements are observed, outer (shipping) containers or packages, inner containers, interior protection devices, method of packing within containers or packages, or other form of shipment authorized must be made of materials of such strength or be of such nature as to afford a reasonable and proper protection of lading and to protect against damage to other freight or equipment, and carriers may for good reason refuse to accept freight the transportation of which, in their judgment, would not be reasonably safe and practicable and so notify the shipper.

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## RULES

## ITEM 680-A-Continued

**Liquids, or Commodities that will Expand, Liquefy or Vaporize**

**Sec. 3.** Liquids, or commodities that will expand, liquefy or vaporize under any conditions during transportation must be secured in containers that will prevent leakage from such containers.

**Recoopering**

**Sec. 4.** Provided that the shipper is notified beforehand, the carrier shall have the right to perform necessary recoopering at owner's or shipper's expense except when necessitated by carrier's negligence.

**Definitions of the Terms 'In Packages' and 'Loose'**

**Sec. 5. (a)** When the term 'in packages' is provided in connection with the separate descriptions of articles, such articles will be accepted for transportation in any container or in any other form tendered to carrier which will permit handling into or out of vehicles as units, provided such containers or tendered forms will render the transportation of freight reasonably safe and practicable so that it will withstand the normal rigors of the less-than-truckload environment. The term 'in packages' includes articles securely fastened to lift truck skids, pallets or platforms, or unitized quantities, but does not include articles 'in bulk,' 'loose,' 'on skids' or articles racked or braced in vehicles.

**Sec. 5. (b)** The term 'loose' is defined as freight that is not packaged, not unitized, not on skids and not securely fastened to lift truck skids, pallets or platforms. When the term 'loose' is provided in connection with the separate descriptions of articles or where no packing or form of acceptance is specified, articles may be tendered loose for transportation only when the transportation of the articles is reasonably safe and practicable so that it will withstand the normal rigors of the less-than-truckload environment. Where necessary to afford adequate protection against damage, articles must be packaged or otherwise protected by packing forms or other packaging materials.

**Inner Containers versus Outer Containers**

**Sec. 6. (a)** The containers or packages provided in individual items are outside shipping containers, and the rates or classes shown in connection therewith apply whether the contents are in bulk, loose or in inner containers; except in those instances where items specifically provide classes when 'in inner containers' in specified containers, and except where items provide classes when 'in bulk' in specified containers.

**Sec. 6. (b)** Except as otherwise provided, when classes or rates are provided for articles in boxes, in glass in boxes, in containers in boxes, or in inner containers in boxes, such rates or classes will not apply on articles in glass carboys in boxes.

**Sec. 6. (c)** Except as otherwise provided, rates or classes shown for articles in glass inner containers also will apply on the same articles in earthenware or molded plastic inner containers.

**Sec. 6. (d)** Where in individual items, classes or ratings are provided for articles in metal inner containers, such classes or ratings apply only on articles in inner containers constructed of metal and having rigid, self-supporting sides.

**Articles Secured to Skids or to Lift Truck Skids, Pallets or Platforms, or Bundled Together**

**Sec. 7. (a)** Articles in packages or shipping forms, as authorized in individual item descriptions, will be accepted when secured on skids meeting the requirements of Item 270. When articles are authorized to move 'on skids' within individual item descriptions, skids must meet the requirements of Item 270.

**Sec. 7. (b)**

(1) Except as required in Paragraph (2), articles in packages or shipping forms, as authorized in individual item descriptions, will be accepted when unitized or secured on lift truck skids, pallets or platforms meeting the requirements of Item 265. Unless otherwise provided, when in the specifications of numbered packages or in individual item descriptions articles are required to move on lift truck skids, pallets or platforms, such skids, pallets or platforms must meet the requirements of Item 265. Except where required by the applicable provisions, it is recommended that articles unitized or secured on lift truck skids, pallets or platforms not overhang the skid, pallet or platform deck.

(2) Articles in bags complying with the construction requirements for such containers, as authorized in individual item descriptions, will be accepted when unitized on lift truck skids, pallets or platforms meeting the requirements of Item 265, provided the bottom tiers of bags are placed within a fiberboard tray, with or without a separate fiberboard sleeve, on the lift truck skid, pallet or platform deck. Depth of the tray or tray and sleeve, as the case may be, must extend at least 20 inches from the lift truck skid, pallet or platform deck. Bags, tray and, where present, sleeve must not overhang the deck, and the entire handling unit must be secured together with plastic film and with strapping in opposing directions, at least two straps in each direction. Fiberboard protectors or a barrier sheet of fiberboard, heavy-duty Kraft paper or similar material must be used to prevent direct contact between straps and bags. See Note 5.

**Note 5**—These requirements do not apply on articles in flexible intermediate bulk containers (FIBCs), including bulk bags.

**Sec. 7. (c)** Articles in fiberboard boxes complying with the construction requirements for such containers, as authorized in individual item descriptions, will be accepted when unitized into bundles with stretch or heat-shrinkable plastic film, or the strapping materials named in Item 680, Secs. 9 (a) or (b). Materials used to bundle containers must be of sufficient number and strength to maintain the integrity of the unit during transportation.

**Packing—Mixed Shipments**

**Sec. 8.** Unless otherwise provided in the separate description of articles, the package specifications, conditions and all other requirements governing articles in straight shipments apply on the same articles when in mixed shipments.

**Strapping or Taping of Articles or Packages**

**Sec. 9. (a)** Unless otherwise provided, where the use of metal straps, rope or wire is specifically authorized or required, or where an article must be 'strapped,' filament-reinforced pressure-sensitive or gummed tape complying with the following specifications may be used:

Pressure-sensitive tape not less than  $\frac{3}{4}$  inch in width reinforced with continuous longitudinal woven or unwoven filaments imbedded in an adhesive, or gummed tape not less than  $\frac{3}{4}$  inch in width reinforced with continuous longitudinal unwoven filaments imbedded in an adhesive. Tape must have longitudinal tensile strength of:

(1) Not less than 160 pounds per inch of width and not less than 12 percent stretch at break.

**OR**

(2) Not less than 240 pounds per inch of width and not less than three percent stretch at break. Such tape must be used as a complete band with a four-inch overlap of the tape on itself.

**Sec. 9. (b)** Unless otherwise provided, where the use of metal straps, rope or wire is specifically authorized or required, or where articles must be 'strapped,' strapping made of the following materials and meeting the following requirements may be used:

(1) Synthetic fiber strapping, consisting of cords or yarns held in parallel position by adhesive or by being bonded to paper. Strapping must have a longitudinal strength of not less than 200 pounds per  $\frac{1}{4}$  inch of width with not less than 12 percent and not more than 20 percent stretch at break-point.

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## RULES

**ITEM 680-A-Continued**

(2) Extruded oriented nylon, polyester or polypropylene strapping must have a tensile strength of not less than 200 pounds per  $\frac{1}{4}$  inch of width, with not less than seven percent and not more than 20 percent stretch at break-point.

**Definition of 'Wrapped'**

**Sec. 10. (a)** When in the separate description of articles the word 'wrapped' is referred to as a form of exterior packaging, such articles must be enclosed or enfolded within packaging material which completely covers the article. Such wrappers must be securely fastened. This method of packaging must render the transportation of freight reasonably safe and practicable so that it will withstand the normal rigors of the less-than-truckload environment.

**Sec. 10. (b)** Except as provided elsewhere in this Classification, when plastic film wrap is used, the film strength should afford sufficient protection to the freight. The plastic film must be wrapped so as to adequately secure the freight together and to the lift truck skid, pallet or platform, when present.

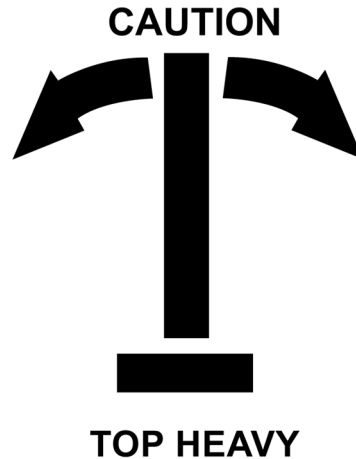
In order to test the sufficiency of plastic film wrap, performance tests may be conducted. To simulate fork truck handling, test according to ASTM D880, Test Method for Impact Testing for Shipping Containers and Systems; D4003, Methods of Programmable Horizontal Impact Test for Shipping Containers and Systems; D6055, Test Methods for Mechanical Handling of Unitized Loads and Large Shipping Cases and Crates; or D6179, Test Methods for Rough Handling of Unitized Loads and Large Shipping Cases and Crates. For guidance on the intensities and durations for these procedures, refer to Section 10.3.2 of Schedule A – Handling – Manual and Mechanical of ASTM D4169, Standard Practice for Performance Testing of Shipping Containers and Systems. To test for resistance to impact of the plastic wrap on shipping packages, use ASTM D6344, Standard Test Method for Concentrated Impacts to Transport Packages.

**Substitution of Fiberboard Boxes for Packages, Bales, Bundles or Wrapped**

**Sec. 11.** When in the separate description of articles the terms 'in packages,' 'in bales,' 'in bundles,' or 'wrapped' are referred to as a form of exterior packaging, such articles may be enclosed in corrugated fiberboard boxes. When the corrugated boxes used do not meet the requirements of Item 222, they must not bear a box manufacturer's certificate as provided for in Item 222-1.

**Top-Heavy Articles**

**Sec. 12.** Articles as tendered for shipment weighing 200 pounds or greater and greater than 48 inches in height which exhibit a high center of gravity in their normal orientation of loading for in-transit movement must be placarded on two opposite sides conspicuously displaying the following symbol as a precautionary warning:



Top-heavy articles are those having a center of gravity higher than  $\frac{1}{2}$  their standing height and having a height of two times or greater of the shorter base dimensions, as packaged.

**Environmental or Event Monitors, Indicators or Recorders**

**Sec. 13. (a)** Environmental or event monitors, indicators or recorders are devices that can be placed on or within a package, handling unit or vehicle to monitor the shipping and storage environment. These devices are intended to detect if an event has occurred or an environmental threshold has been surpassed for many types of shipping conditions such as, but not restricted to, shock/impact, vibration, tilting, temperature, humidity, atmospheric pressure or exposure to light.

**Sec. 13. (b)** The reliability of environmental or event monitors, indicators or recorders is not always certain. Consequently, these devices might not constitute sufficient evidence of mishandling of the freight.

**Articles or Containers with Wheels or Casters**

**Sec. 14.** Articles that are tendered for shipment with wheels or casters attached, or in containers with wheels or casters attached, must be equipped with locking or retracting devices or be packaged in such a manner as to prevent movement during transportation. When tendered on lift truck skids, pallets or platforms, articles or containers with wheels or casters attached must be secured to prevent any shifting during transportation and to prevent wheels or casters from falling through the lift truck skid, pallet or platform deck.

**Where Damage to the Shipping Package Will Result in a Claim**

**Sec. 15.** Unless otherwise provided in individual descriptions of articles, when damage to the shipping package, including cosmetic damage, will result in a claim for loss or damage, such package(s) must be overpacked or otherwise protected by packaging materials sufficient to prevent damage to the package(s). See also Item 222-1, Note 6.

 **Freight Requiring Protection from Rust or Corrosion, or from Freezing of Internal Liquids**

**Sec. 16. (a)** Articles liable to damage by rust or corrosion must be coated with rust- or corrosion-preventative compounds or preparations, or be protected by rust- or corrosion-prevention packaging.

**Sec. 16. (b)** Machinery or vehicles, including aircraft, automobiles or boats, containing water or other liquid subject to freezing must be drained or have such water or liquid adequately protected by suitable antifreeze compounds or preparations.

SUPPLEMENT 4 TO NMF 100-AS

ITEM	ARTICLE	CLASS
◆12540-A	<b>Albumen</b> , blood, in bags, boxes or drums.....	85
◆12980-A	<b>ALLOYS:</b> subject to item 12700 <b>Manganese-titanium</b> , in boxes.....	100
17670-A	<b>ATHLETIC GOODS GROUP:</b> subject to item 15500 <b>Traps</b> , bullet or target, etc. ◆◆□...Cancel; see item 187130.	
◆21420-A	<b>Balsam</b> , crude, NOI, in boxes or drums.....	85
◆21520-A	<b>BARKS:</b> subject to item 21500 <b>Barks</b> , NOI, ground or powdered, in bags, boxes or drums.....	100
◆21540-A	<b>Barks</b> , NOI, not ground nor powdered, in boxes or drums, in bags, or in bales not machine pressed, or in machine pressed bales.....	85
◆21640-A	<b>Slippery Elm or Soap</b> , in packages.....	100
◆23420-A	<b>Berries</b> , juniper or sloe, dried, in bags, boxes or drums.....	85
▲★25970	<b>BOILERS, FURNACES, STOVES AND RELATED ARTICLES GROUP:</b> subject to item 25400 <b>Cooking Equipment</b> , commercial or institutional type, gas or electric, iron or steel, see Note, item 25971, gross shipping weight exceeding 500 pounds each, viz.: <b>Broilers;</b> <b>Cookers or Steamers;</b> <b>Fryers (Deep Fryers);</b> <b>Griddles;</b> In crates, or in triplewall fiberboard containers securely fastened to lift truck skids or pallets, subject to Item 170 and having a density in pounds per cubic foot of: Sub 1 Less than 6..... Sub 2 6 or greater.....	250 85
★25971	NOTE—Also applies on named articles containing metals other than iron or steel, provided the weight of such metals does not exceed 20 percent of the total weight.	
◆26460-A	<b>Heaters</b> , gas, other than portable, in boxes, crates or Packages 1082, 1127 or 2030.....	150
◆26500-A	<b>Heaters</b> , wall insert or baseboard type, electric, other than portable, without blowers or fans, in boxes or Packages 726 or 2248.....	125
△26520-A	<b>Heaters</b> , water, tank type, see Notes, items 26521 and 26522: Sub 1 In boxes or Packages 208, 1016, 1277, 2055, 2056 or 2537, other than secured on lift truck skids or pallets..... Sub 2 In boxes or Packages 208, 1016, 1277, 2055, 2056 or 2537, secured on lift truck skids or pallets; or in crates or Package 2536.....	125 100
26521-B	NOTE—▲Does not apply on solar collectors, solar water heaters or swimming pool heaters. See item 177010 for applicable provisions for solar collectors or solar water heaters, and item 133300 for swimming pool heaters.	
△26522-A	NOTE—Tank-type water heaters tendered in boxes or crates must be supported or suspended in the box or crate and be protected so that there will be no shifting and not less than 1 inch clearance between the article and the inside wall of the box or crate.	
△26525-B	<b>Heaters</b> , water, tankless, see Note, item 26521, in boxes, subject to Item 170 and having a density in pounds per cubic foot of: Sub 1 Less than 8..... Sub 2 8 or greater.....	175 100
26710-A	<b>Ovens</b> , ◆◆NOI, other than cooking, in boxes, crates or Packages 112, 131, 972, 1019, 1082 or 2260, subject to Item 170 and having a density in pounds per cubic foot of: Sub 1 Less than 6..... Sub 2 6 but less than 10..... Sub 3 10 or greater.....	200 110 77.5
◆◆□★26720	<b>Ovens, Ranges or Stoves, cooking, and Related Cooking Equipment</b> , electric or gas, viz.: <b>Convection Ovens</b> , including <b>Air Fryers;</b> <b>Hotplates;</b> <b>Microwave Ovens;</b> <b>Ovens</b> , NOI; <b>Pizza Ovens;</b> <b>Ranges</b> , NOI; <b>Stoves</b> , NOI, indoor type; <b>Stovetops, Cooktops or Grills</b> , NOI, indoor type; <b>Toaster Ovens;</b> In boxes, crates or Packages 112, 131, 972, 1019, 1082, 1462 or 2260, see Note, item 26721, subject to Item 170 and having a density in pounds per cubic foot of: Sub 1 Less than 8..... Sub 2 8 or greater.....	175 92.5
□★26721	NOTE—Articles weighing each greater than 110 pounds must be tendered in authorized packages secured on a lift truck skid, pallet or platform.	
27320-A	<b>Stoves or Ranges</b> , aluminum and iron or steel combined, NOI, electric cooking, etc. ◆◆□...Cancel; see item 26720. <b>Stoves or Ranges</b> , iron or steel: subject to item 27340	
△27414-A	NOTE—Also includes one tee joint and draft regulator combined for each stove when packaged inside stove.	
27430-A	<b>Electric</b> , cooking, etc. ▲...Cancel; see item 26720.	
27440-A	Disc heaters or hot plates, etc. ◆□...Cancel; see item 26720.	
27442-A	NOTE—▲...Cancel; no further application.	
27450-A	Cooking, NOI, etc. ◆□...Cancel; see item 26720.	
△27452-A	NOTE—Also applies on stoves or ranges consisting of separated ovens and surface cooking units designed for permanent individual built-in installation.	



ITEM	ARTICLE	CLASS
	<b>BOILERS, FURNACES, STOVES AND RELATED ARTICLES GROUP:</b> subject to item 25400	
	<b>Stoves or Ranges</b> , iron or steel: subject to item 27340	
27520-A	<b>Gas</b> , NOI, ◆□ other than cooking, see Note, item 27521; <b>Gasoline</b> , NOI; <b>Oil</b> , NOI, other than hand or wheel portable motor operated blower type; <b>Gas Radiators</b> , NOI; or <b>Charcoal, Coal, Oil or Wood and Gas combined</b> , NOI; see Notes, items 27414, 27452 and 27524, in boxes, crates, drums or Packages 112, 131, 972 or 1082 .....	85
△27521-A	NOTE—One gas operating lamp attachment may be included for each stove when in same package. Provisions also apply on accompanying liquefied petroleum gas cylinders, empty or filled.	
△27522-A	NOTE—Also applies on stoves or ranges or parts containing metals other than iron or steel, provided the weight of such metals does not exceed 20 percent of total weight.	
△27524-A	NOTE—Also applies on oil stoves not porcelain enameled in corrugated fiber boxes testing not less than 200 pounds. Dimensions must not exceed 90 united inches.	
27590-A	<b>Stoves, Ranges and Related Cooking Equipment</b> , etc. ◆◆□...Cancel; see items 25970 and 26720.	
27591-A	NOTE—▲...Cancel; see item 25971.	
	<b>BUILDING MATERIALS, MISCELLANEOUS, GROUP:</b> subject to item 33570	
34290-A	<b>Doors or Door Sections or Grilles</b> , garage or commercial or industrial building, overhead, sliding, rolling or curtain type, NOI, ▲with or without accompanying hardware, fittings or motors, in packages, ▲see Note, item 34292 ..	125
34291-A	NOTE—▲...Cancel; no further application.	
△34292-A	NOTE—Doors or door sections or grilles tendered for shipment on lift truck skids or pallets must be securely fastened to and must not overhang the edges of the lift truck skid or pallet deck. Exposed surfaces and edges must be completely wrapped with plastic film or corrugated fiberboard or protected by wood or similar material.	
	<b>BUILDING WOODWORK GROUP:</b> subject to item 37500	
△37504-A	NOTE—Where reference is made to this note, provisions apply on articles of native wood, Canadian wood or foreign birch, pine or spruce, not further finished than primed.	
△37610-A	<b>Building Woodwork</b> , NOI, or <b>Ships' Joiner Work</b> , NOI, see Note, item 37504:	
Sub 1	SU, glazed, see Note, item 37612:	
Sub 2	In metal strapped bundles, glazed surfaces fully protected .....	125
Sub 3	In boxes or crates .....	100
Sub 4	SU, not glazed, see Note, item 37612, in packages .....	100
Sub 5	KD flat, or consisting of one piece of wood, or consisting of pieces assembled into panel form, in packages .....	70
37612-A	NOTE—Applies only on articles to be built in and become a permanent part of ▲building woodwork or ships' woodwork.	
38030-A	<b>Moldings</b> ; banak, native wood (pine), obeche or virola, further finished than primed; or native wood, Canadian wood, or foreign birch, pine or spruce, wholly or partially covered with plastic other than laminated plastic; etc. ◆□...Cancel; see item 38035.	
◆□★38035	<b>Moldings (Mouldings)</b> , with or without coatings or coverings of other materials, see Note, item 38036, in boxes or Package 2109, see Note, item 38037:	
Sub 1	Greatest dimension exceeding 192 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 10.....	175
Sub 3	10 but less than 15.....	100
Sub 4	15 or greater.....	85
Sub 5	Greatest dimension exceeding 96 inches but not exceeding 192 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 6	Less than 10.....	150
Sub 7	10 but less than 15.....	92.5
Sub 8	15 or greater.....	77.5
Sub 9	Greatest dimension not exceeding 96 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 10	Less than 10.....	125
Sub 11	10 but less than 15.....	85
Sub 12	15 or greater.....	70
★38036	NOTE—Also applies on moldings (mouldings) made of wood particleboard or medium density fiberboard (MDF).	
□★38037	NOTE—Articles tendered for shipment on lift truck skids, pallets or platforms must be securely fastened to and must not overhang the edges of the lift truck skid, pallet or platform deck.	
38040-A	<b>Moldings</b> , etc. ◆□...Cancel; see item 38035.	
38041-A	NOTE—▲...Cancel; no further application.	
38050-A	<b>Moldings</b> , wood particleboard; covered wholly or partially with plastic film; or not covered, not further finished than primed; etc. ◆□...Cancel; see item 38035.	
38176-A	▲ <b>Stairs</b> , SU or in SU sections, curved or spiral, with or without balustrades, in crates .....	300
◆□38180-A	<b>Stairs</b> , SU or in SU sections, NOI, in boxes or crates:	
Sub 1	Greatest dimension exceeding 96 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 6 .....	250
Sub 3	6 but less than 10 .....	125
Sub 4	10 or greater.....	85
Sub 5	Greatest dimension not exceeding 96 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 6	Less than 6 .....	200
Sub 7	6 but less than 10 .....	110
Sub 8	10 or greater.....	77.5
◆42460-A	<b>Charcoal</b> , other than animal or wood, NOI, not activated, in bags, boxes or drums .....	85
◆42470-A	⊕ <b>Charcoal</b> , wood, NOI, not activated:	
Sub 1	In containers in boxes or drums .....	85
Sub 2	In paper bags or cloth bags, or in bulk in boxes or drums.....	77.5

ITEM	ARTICLE	CLASS
	<b>CHEMICALS GROUP:</b> subject to item 42600	
◆42620-A	<b>Acetanilid:</b>	
Sub 1	In containers in boxes .....	85
Sub 2	In Package 23 or in bulk in boxes or drums.....	70
◆42647-A	⊛ <b>Acids, NOI, dry, other than toxic or corrosive materials:</b>	
Sub 1	In inner containers in boxes .....	92.5
Sub 2	In bulk in boxes, drums, five-ply paper bags, Item 201 bags or Packages 248, 1380, 1381, 1388, 1425, 2009, 2226, 2264, 2369 or 2395 .....	85
◆42648-A	⊛ <b>Acids, NOI, liquid, other than toxic or corrosive materials:</b>	
Sub 1	In carboys .....	100
Sub 2	In inner containers in boxes or in Package 1190 .....	92.5
Sub 3	In bulk in drums or Package 1014 .....	85
◆42740-A	<b>Alpha Naphthol</b> , in drums, or in cloth bags with double lining of waterproof paper.....	85
◆42780-A	<b>Alumina Oxide Platinum Catalyst</b> , in boxes or drums .....	300
◆42790-A	<b>Aluminum Acetate</b> , dry, in boxes or drums .....	77.5
◆42800-A	<b>Aluminum Acetate</b> , liquid:	
Sub 1	In carboys .....	100
Sub 2	In inner containers in boxes .....	77.5
Sub 3	In bulk in drums .....	70
◆42850-A	<b>Aluminum Formate:</b>	
Sub 1	Liquid:	
Sub 2	In carboys .....	100
Sub 3	In bulk in drums.....	70
Sub 4	Dry, in bags, boxes or drums .....	77.5
◆42890-A	<b>Aluminum Salts, NOI</b> , in bags, boxes or drums.....	85
◆42920-A	⊛ <b>Ammoniacal Liquor or Aqua Ammonia, NOI:</b>	
Sub 1	In bulk in drums or Packages 602 or 2399 .....	50
Sub 2	In inner containers in boxes, in metal cans in crates or in Package 1190 .....	55
Sub 3	In plastic carboys .....	70
Sub 4	In carboys other than plastic carboys, or in Package 200.....	100
◆42980-A	<b>Ammonium:</b> subject to item 42930	
Sub 1	<b>Bromide:</b>	
Sub 1	In inner containers in boxes.....	100
Sub 2	In bulk in boxes or drums .....	77.5
Sub 2	<b>Carbonate:</b>	
Sub 1	In inner containers in boxes.....	77.5
Sub 2	In bulk in drums.....	70
◆43000-A	<b>Chloride (Muriate of Ammonia or Sal Ammoniac):</b>	
Sub 1	In cloth or five-ply paper bags, in Item 202 bags, in Packages 202 or 2183 or in bulk in boxes or drums.....	65
Sub 2	In inner containers in boxes.....	77.5
◆43140-A	<b>Thiosulfate Solution:</b>	
Sub 1	In glass carboys .....	100
Sub 2	In drums .....	70
◆43180-A	⊛ <b>Amyl Phenol:</b>	
Sub 1	In glass in boxes .....	85
Sub 2	In paper-lined burlap bags or in boxes or drums .....	70
◆43200-A	<b>Antimony Crocus</b> , in boxes or drums.....	85
◆43210-A	<b>Antimony Lactate</b> , in drums .....	85
◆43230-A	⊛ <b>Antimony Salts, NOI:</b>	
Sub 1	Liquid:	
Sub 2	In carboys .....	110
Sub 3	In inner containers in boxes.....	100
Sub 4	In bulk in drums.....	85
Sub 5	Other than liquid:	
Sub 6	In inner containers in boxes.....	100
Sub 7	In boxes or drums .....	85
◆43260-A	⊛ <b>Antimony Sulfides, NOI, or Sulfurated Antimony:</b>	
Sub 1	In inner containers in boxes .....	85
Sub 2	In bulk in boxes or drums .....	77.5
◆43490-A	<b>Beta Naphthol</b> , in drums; in cloth bags with double lining of waterproof paper; in Packages 352 or 353.....	85
◆43510-A	⊛ <b>Blasting Chlorate, NOI</b> , in boxes or drums .....	77.5
◆43540-A	<b>Boric (Boracic) Acid:</b>	
Sub 1	In glass inner containers in boxes .....	85
Sub 2	In inner containers in boxes, or in bulk in bags, boxes or drums.....	70
◆43560-A	<b>Bromine Salts</b> , crude, NOI, for treating ores, in boxes or drums .....	77.5
◆43580-A	<b>Butyl Lactate</b> , in boxes or drums .....	85
◆43590-A	<b>Butyl Stearate</b> , in boxes or drums .....	85
◆43610-A	<b>Cadmium Salts, NOI</b> , in boxes or drums, or in metal cans in crates.....	200
	<b>Calcium:</b> subject to item 43620	
◆43660-A	<b>Bromide</b> , in bags, boxes or drums.....	100
◆43680-A	⊛ <b>Calcium or Lime Salts, NOI</b> , in bags, boxes or drums .....	200
◆43770-A	<b>Lactate:</b>	
Sub 1	In bulk in bags, boxes or drums.....	77.5
Sub 2	In inner containers in boxes.....	85

SUPPLEMENT 4 TO NMF 100-AS

ITEM	ARTICLE	CLASS
	<b>CHEMICALS GROUP:</b> subject to item 42600	
	<b>Calcium:</b> subject to item 43620	
◆43850-A	<b>Sulfide:</b>	
Sub 1	In inner containers in boxes.....	125
Sub 2	In double bags or in bulk in drums.....	55
◆43940-A	⊗ <b>Chemicals, NOI, see Note, item 43942:</b>	
Sub 1	In glass carboys or Package 200.....	100
Sub 2	In bags, boxes, drums or Packages 1439, 2258, 2419, 2456 or 2499.....	85
△43942-A	NOTE—Also applies on accompanying accessorial bleeding sets or holders with or without needles attached. The total weight of such named accessorial articles must not exceed 10 percent of the weight upon which charges are assessed.	
◆43950-A	⊗ <b>Chloracetophenone:</b>	
Sub 1	In glass or metal containers in wooden boxes.....	200
Sub 2	In steel cylinders.....	150
◆43980-A	⊗ <b>Chloroplatinic Acid; or Acid Compounds or Solutions</b> containing dissolved gold, silver, platinum, palladium, or metals of the platinum group; in boxes or drums.....	500
◆44040-A	<b>Cobalt Oxide</b> , in boxes or drums.....	150
◆44060-A	<b>Cobalt Salts, NOI</b> , in boxes or drums.....	200
◆44070-A	<b>Cobalt Sulfate</b> , in boxes, drums or burlap bags.....	100
◆44110-A	<b>Copper Oleate</b> , in drums.....	85
◆44170-A	⊗ <b>Crotonaldehyde</b> , other than stabilized:	
Sub 1	In boxes or drums.....	70
Sub 2	In glass carboys.....	100
◆44225-A	<b>Deuterium Oxide (Heavy Water)</b> , in boxes or drums.....	300
◆44230-A	⊗ <b>Diacetone:</b>	
Sub 1	In glass carboys.....	100
Sub 2	In inner containers in boxes.....	65
Sub 3	In bulk in drums or in steel cylinders.....	60
◆44320-A	⊗ <b>Diisobutyl Carbinol:</b>	
Sub 1	In bulk in drums or steel cylinders.....	60
Sub 2	In inner containers in boxes.....	65
Sub 3	In glass carboys.....	100
◆44380-B	<b>Dyes or Colors</b> , coal tar, other than indigo and not required by the U.S. Department of Transportation to bear a Hazard Class or Hazard Division label, see Note, item 44381; dry, liquid or paste, in boxes or drums; or dry, in Packages 1059, 1065 or 2005.....	100
△44381-A	NOTE—Does not apply on materials regulated by the U.S. Department of Transportation as hazardous and required to bear a Hazard Class or Hazard Division label. For classes applicable to such hazardous materials, see provisions elsewhere in this Classification.	
◆44460-A	⊗ <b>Ethyl Acetate:</b>	
Sub 1	In bulk in drums or steel cylinders.....	70
Sub 2	In glass carboys.....	100
Sub 3	In inner containers in boxes.....	77.5
◆44480-A	<b>Ethylidene Aniline</b> , in inner containers in boxes.....	100
◆44520-A	<b>Formaldehyde</b> , dry:	
Sub 1	In boxes, burlap bags lined with waterproof paper, multiple-wall paper bags or drums.....	70
Sub 2	In metal holders in boxes or drums.....	85
◆44550-A	<b>Formaldehyde Aniline</b> , in boxes or drums.....	85
◆44610-A	<b>Glycerine</b> , other than crude:	
Sub 1	In carboys.....	100
Sub 2	In inner containers in boxes.....	77.5
Sub 3	In bulk in drums.....	70
◆44650-A	<b>Indigo</b> , dry, in boxes or drums.....	100
	<b>Iron:</b> subject to item 44670	
◆44680-A	<b>Acetate (Iron Liquor):</b>	
Sub 1	In bulk in drums.....	70
Sub 2	In inner containers in boxes.....	77.5
Sub 3	In glass carboys.....	100
◆44690-A	<b>Bromide</b> , in boxes or drums.....	100
◆44700-A	<b>Carbonate</b> , in boxes or drums.....	100
◆44720-A	⊗ <b>Chloride (Iron Muriate)</b> , other than crude, liquid:	
Sub 1	In bulk in drums.....	65
Sub 2	In inner containers in boxes.....	70
Sub 3	In Package 200 or in glass carboys.....	100
◆44760-A	⊗ <b>Nitrate:</b>	
Sub 1	In bulk in drums.....	65
Sub 2	In inner containers in boxes.....	70
Sub 3	In glass carboys.....	100
◆44810-A	<b>Sulfate (Ferric Sulfate)</b> , other than dry ( <b>Ferric Sulfate Solution</b> ):	
Sub 1	In bulk in drums.....	65
Sub 2	In inner containers in boxes.....	70
Sub 3	In glass carboys.....	100
◆44830-A	<b>Sulfide:</b>	
Sub 1	In bags, or in bulk in boxes or drums.....	65
Sub 2	In inner containers in boxes.....	77.5

ITEM	ARTICLE	CLASS
	<b>CHEMICALS GROUP:</b> subject to item 42600	
◆44855-A	⊗ <b>Isobutyric Anhydride</b> , in boxes or drums .....	85
◆44867-A	<b>Lactic Acid:</b>	
Sub 1	In carboys .....	100
Sub 2	In inner containers in boxes .....	77.5
Sub 3	In drums .....	70
	<b>Lead:</b> subject to item 44870	
◆44900-A	<b>Oleate:</b>	
Sub 1	In containers in boxes or drums, or in pails in crates .....	85
Sub 2	In bulk in drums .....	77.5
◆44910-A	⊗ <b>Peroxide</b> , ground, dry, in drums .....	77.5
	<b>Lime</b> , chlorinated ( <b>Chloride of Lime, Bleach, NOI, or Bleaching Powder, NOI</b> ): subject to item 44970	
◆45000-A	⊗ <b>Liquid (aqueous solution):</b>	
Sub 1	In bulk in drums .....	55
Sub 2	In inner containers in boxes .....	60
Sub 3	In glass carboys .....	100
	<b>Magnesium:</b> subject to item 45030	
◆45040-A	<b>Carbonate:</b>	
Sub 1	In cloth or paper bags, or in bulk in boxes or drums .....	70
Sub 2	In inner containers in boxes .....	77.5
◆45050-A	<b>Chloride:</b>	
Sub 1	In inner containers in boxes .....	77.5
Sub 2	In bulk in Packages 27 or 2068, or in bulk in drums .....	60
◆45060-A	⊗ <b>Fluosilicate (Magnesium Silicofluoride):</b>	
Sub 1	In bulk in drums .....	65
Sub 2	In inner containers in boxes or crates .....	77.5
◆45090-A	<b>Oxide</b> , in bags, boxes or drums:	
Sub 1	Light calcined .....	100
Sub 2	Heavy calcined .....	70
◆45120-A	<b>Phosphate</b> , in bags or drums .....	85
◆45260-A	⊗ <b>Methyl Acetone:</b>	
Sub 1	In bulk in drums or steel cylinders .....	65
Sub 2	In glass carboys .....	100
Sub 3	In inner containers in boxes .....	70
◆45325-A	⊗ <b>Monochloroacetic Acid:</b>	
Sub 1	In inner containers in boxes .....	100
Sub 2	In bulk in drums .....	70
◆45380-A	<b>Nickel Carbonate</b> , in boxes, in cloth or four-ply paper bags, or in drums .....	77.5
◆45400-A	<b>Nickel Oxide</b> , in boxes or drums or in Package 27 .....	77.5
◆45410-A	<b>Nickel Plating Solution:</b>	
Sub 1	In bulk in drums, or in inner containers in boxes, or in Package 278 .....	70
Sub 2	In glass carboys .....	100
◆45420-A	⊗ <b>Nickel Salts</b> , NOI, in boxes, drums or latex-lined burlap bags .....	100
45430-A	⊗ <b>Nickel Sulfate or Single Nickel Salts</b> , ☐ in bags, boxes, drums, intermediate bulk containers (IBCs) or Package 2162 .....	70
◆45465-A	<b>Oxalic Acid:</b>	
Sub 1	In inner containers in boxes .....	77.5
Sub 2	In boxes or drums .....	70
◆45480-A	<b>Paraphenyl Phenol</b> , in drums or in Package 85 .....	77.5
45613-A	⊗ <b>Phthalic Anhydride</b> , with equal to or less than 0.05% maleic anhydride, or <b>Isophthalic Acid</b> , ☐ in bags, boxes, drums, intermediate bulk containers (IBCs) or Packages 1093 or 2172 .....	70
	<b>Potassium (Potash):</b> subject to item 45640	
◆45680-A	<b>Bicarbonate:</b>	
Sub 1	In bulk in drums, or in metal cans in boxes or drums, or in Packages 397 or 2183 .....	70
Sub 2	In inner containers in boxes or drums .....	77.5
◆45710-A	<b>Bromide:</b>	
Sub 1	In inner containers in boxes or drums .....	100
Sub 2	In bulk in bags, boxes or drums .....	85
◆45750-A	<b>Citrate</b> , in boxes, drums or Packages 2360 or 2369 .....	77.5
◆45790-A	<b>Iodide</b> , in boxes or drums .....	150
◆45800-A	<b>Metabisulfite</b> , in drums .....	77.5
◆☐45870-A	⊗ <b>Potassium (Potash) Salts, NOI:</b>	
Sub 1	In inner containers in boxes .....	100
Sub 2	In bulk in boxes, drums or intermediate bulk containers (IBCs) .....	85
◆45880-A	<b>Prussiate</b> , in boxes or drums:	
Sub 1	Red .....	100
Sub 2	Yellow .....	70
◆45930-A	⊗ <b>Sulfide (Sulfuret of Potash):</b>	
Sub 1	In inner containers in boxes or drums .....	77.5
Sub 2	In bulk in drums .....	70
◆46000-A	⊗ <b>Propylene Dichloride:</b>	
Sub 1	In boxes, drums or steel cylinders .....	55
Sub 2	In glass carboys .....	100

ITEM	ARTICLE	CLASS
	<b>CHEMICALS GROUP:</b> subject to item 42600	
◆46023-A	<b>Pyroligneous Acid:</b>	
Sub 1	In carboys .....	100
Sub 2	In bulk in drums.....	55
◆46040-A	<b>Rochelle Salts</b> , in boxes or drums .....	92.5
◆46045-A	<b>Salicylic Acid:</b>	
Sub 1	In inner containers in boxes .....	85
Sub 2	In bulk in boxes or drums, or in five-ply multiple-wall paper bags .....	70
◆46060-A	☉ <b>Silicon Chloride</b> , in drums .....	92.5
	<b>Sodium (Soda):</b> subject to item 46080	
◆46160-A	<b>Bichromate:</b>	
Sub 1	In bags lined with waterproofed paper, or in bulk in boxes or drums, or in Package 2184 .....	70
Sub 2	In inner containers in boxes or drums .....	77.5
◆46170-A	☉ <b>Bifluoride:</b>	
Sub 1	In bulk in Package 355, or in boxes or drums .....	70
Sub 2	In inner containers in boxes or drums .....	77.5
◆46190-A	<b>Bisulfite</b> , liquid:	
Sub 1	In inner containers in boxes or drums .....	65
Sub 2	In glass carboys .....	100
Sub 3	In bulk in drums .....	50
◆46200-A	<b>Bromide:</b>	
Sub 1	In inner containers in boxes or drums .....	100
Sub 2	In bulk in bags, boxes or drums .....	85
◆46270-A	<b>Chromate</b> , dry:	
Sub 1	In bags with waterproof liner, or in bulk in boxes or drums, or in Package 2184.....	70
Sub 2	In inner containers in boxes or drums .....	77.5
◆46290-A	<b>Citrate</b> , in bags with waterproof liner, in five-ply paper bags or in boxes, drums or Package 2369.....	77.5
◆46340-A	☉ <b>Fluoride</b> , other than toxic:	
Sub 1	In five-ply multiple-wall paper bags, or in bulk in boxes or drums.....	70
Sub 2	In inner containers in boxes or drums.....	77.5
◆46350-A	<b>Formate:</b>	
Sub 1	In bags with waterproof liner, or in bulk in drums .....	70
Sub 2	In inner containers in boxes or drums .....	77.5
◆46400-A	<b>Lactate:</b>	
Sub 1	In glass carboys .....	100
Sub 2	In boxes or drums.....	70
◆□46480-A	<b>Perborate:</b>	
Sub 1	In inner containers in boxes.....	77.5
Sub 2	In bulk in boxes, drums, intermediate bulk containers (IBCs) or Package 358 .....	70
◆46530-A	<b>Prussiate:</b>	
Sub 1	In five-ply paper bags, or in bulk in boxes or drums or Package 1266.....	70
Sub 2	In containers in boxes or drums.....	77.5
◆46580-A	<b>Silicate</b> , other than dry ( <b>Silicate Solution</b> ), including <b>Mechanical Mixtures of Silicate of Soda and Clay:</b>	
Sub 1	In glass carboys .....	100
Sub 2	In inner containers in boxes or drums.....	65
Sub 3	In bulk in drums.....	55
◆46610-A	☉ <b>Soda or Sodium Salts</b> , NOI:	
Sub 1	In inner containers in boxes or drums.....	100
Sub 2	In double bags, or in bulk in boxes or drums.....	85
◆46620-A	<b>Stannate</b> , in boxes or drums.....	85
□46640-A	☉ <b>Sulfide:</b>	
Sub 1	In bulk in bags, drums or intermediate bulk containers (IBCs) .....	55
Sub 2	In inner containers in boxes.....	70
◆46660-A	<b>Thiocyanate Crystals (Sodium Sulfocyanate Crystals)</b> , in drums.....	77.5
◆46720-A	<b>Strontium Bromide</b> , in boxes .....	100
◆46780-A	<b>Tannic Acid (Tannin)</b> , in bags, boxes or drums .....	85
	<b>Tar Products:</b> subject to item 46790	
◆46820-A	<b>Anthracene</b> , other than crude, in drums .....	100
◆46840-A	☉ <b>Coal Tar Naphtha Solvent:</b>	
Sub 1	In bulk in drums or steel cylinders.....	70
Sub 2	In inner containers in boxes or drums.....	77.5
Sub 3	In glass carboys .....	100
◆□46920-A	☉ <b>Dye Intermediates</b> , NOI, not dyestuffs, NOI, dyes nor colors, other than toxic or corrosive materials, in boxes, drums, intermediate bulk containers (IBCs) or Packages 359, 1291, 2032 or 2336.....	77.5
◆46930-A	<b>Mononitrotoluol</b> , in boxes or drums .....	77.5
◆47010-A	<b>Tartaric Acid:</b>	
Sub 1	In inner containers in boxes .....	85
Sub 2	In bulk in boxes or drums, or in bags unitized on pallets.....	77.5
◆47030-A	☉ <b>Tear Gas Solutions</b> , in steel cylinders or drums.....	85
◆47040-A	<b>Tellurium Oxide</b> , in boxes or drums.....	100
◆47050-A	<b>Terebene</b> , in boxes or drums.....	100
◆47070-A	<b>Terpineol:</b>	
Sub 1	In inner containers in boxes or drums.....	100
Sub 2	In bulk in drums.....	70

ITEM	ARTICLE	CLASS
	<b>CHEMICALS GROUP:</b> subject to item 42600	
◆47100-A	☉Thorium Nitrate, in inner containers in boxes or drums.....	300
◆47110-A	Tin Bichloride (Aqueous Solution of Tin Tetrachloride), in glass carboys .....	100
◆47120-A	☉Tin Chloride (Tin Muriate), liquid:	
Sub 1	In glass carboys.....	100
Sub 2	In boxes or drums.....	85
◆47130-A	Tin Chloride, solid (Tin Crystals), in boxes or drums.....	100
◆47140-A	Tin Oxide, in bags, boxes or drums.....	100
◆47150-A	☉Tin Tetrachloride, anhydrous, in boxes or drums .....	92.5
◆47210-A	Tungsten Oxide or Tungstic Acid, in boxes or drums.....	200
	Zinc: subject to item 47280	
◆47370-A	Laurate, in double bags, in multiple-wall paper bags or in drums.....	77.5
◆47400-A	☉Salts, NOI:	
Sub 1	In inner containers in boxes or drums.....	100
Sub 2	In bulk in multiple-wall paper bags, boxes or drums .....	92.5
◆49983-A	Cochineal, see Note, item 49984, in boxes or drums.....	85
△49984-A	NOTE—Provisions apply only on a red dye derived from the bodies of cochineal insects.	
◆50020-A	Color, butter, in boxes or drums.....	85
◆50023-A	Color, cheese:	
Sub 1	In boxes or drums.....	85
Sub 2	In bulk in drums or in steel cans gauge 24 or thicker, capacity 2 gallons or over.....	70
◆□50086-A	Compounds, bleach assistant, NOI, not required by the U.S. Department of Transportation to bear a Hazard Class or Hazard Division label, see Note, item 50087, in bags, drums or intermediate bulk containers (IBCs).....	55
★50087	NOTE—Does not apply on materials regulated by the U.S. Department of Transportation as hazardous and required to bear a Hazard Class or Hazard Division label. For classes applicable to such hazardous materials, see provisions elsewhere in this Classification.	
◆50155-A	☉Compounds, fireproofing, or Flame Retardants:	
Sub 1	Liquid, NOI:	
Sub 2	In carboys.....	100
Sub 3	In boxes or drums.....	70
Sub 4	Dry, see Note, item 50157, in bags, in Packages 248 or 2301 or in block form in Package 2273.....	50
△50157-A	NOTE—Applies only on compounds containing not less than 65 percent by weight of ammonium sulfate and diammonium or monammonium phosphate.	
◆50175-A	☉Compounds, flour bleaching, NOI, in drums.....	85
	<b>COOKWARE GROUP:</b> subject to item 52860	
52895-A	◆Cookware or Bakeware, aluminum, NOI, other than expendable, see Note, item 52896, in boxes.....	125
△52896-A	NOTE—Also applies on complement of covers, whether of same or other materials and whether in same or separate packages.	
52930-A	Pans or Pots, cast aluminum, with or without covers, etc. ◆...Cancel; see item 52895.	
	<b>DENTAL, HOSPITAL OR MEDICAL SUPPLY GROUP:</b> subject to item 56400	
◆56660-A	Dental Impression Compound, in boxes or drums .....	85
△56910-A	☉Sets, oxygen administration, consisting of oxygen in steel cylinders not over 240 cubic inches capacity, plastic tubing and plastic administering mask, with or without regulators, see Note, item 56911, in boxes .....	70
56911-A	NOTE—Does not apply on recreational oxygen in handheld canisters or containers. ▲For applicable provisions, see item 86070.	
◆56995-A	Toothbrushes, NOI, in packages or Package 2213, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 6.....	200
Sub 2	6 but less than 10 .....	110
Sub 3	10 or greater.....	70
56996-A	NOTE—▲...Cancel; no further application.	
◆57100-A	☉Deodorants, NOI, other than contained in or in the form of decorations, novelties or ornaments, see Note, item 57101, or Disinfectants, NOI, see Note, item 57102:	
Sub 1	In carboys.....	100
Sub 2	In inner containers in boxes or Package 2341 or in Package 2379 .....	85
Sub 3	In bulk in drums, pails or Packages 2213, 2452 or 2473 .....	60
△57101-A	NOTE—Does not apply on deodorants contained in or in the form of decorations, novelties or ornaments. For applicable classes, see item 56290.	
△57102-A	NOTE—Does not apply on deodorants or disinfectants that are medicinal, poison or corrosive materials, nor on toilet preparations.	
	<b>DRUGS, MEDICINES, TOILET PREPARATIONS OR PERSONAL CARE PRODUCTS GROUP:</b> subject to item 58500	
◆58520-A	Aspirin (Acetylsalicylic Acid), in boxes, drums or Package 248 .....	85
◆58540-A	Bath Salts or Crystals, Bubble Bath or Water Softening Compounds, medicated or perfumed, in boxes, drums or Package 2213:	
Sub 1	Actual value not exceeding 25 cents per pound, see Note, item 58542.....	65
Sub 2	Actual value exceeding 25 cents per pound, see Note, item 58542.....	100
58542-A	NOTE—▲Shipper must certify on shipping orders and bills of lading at time of shipment the actual value per pound of the property or the value group in item 58540 embracing the actual value per pound of the property. If the shipper fails to so certify the actual value, shipment will not be accepted, but if the shipment is inadvertently accepted, charges will initially be assessed on the basis of the class for the highest valuation provided in item 58540. Upon proof of lower actual value, freight charges will be adjusted accordingly.	

ITEM	ARTICLE	CLASS
	<b>DRUGS, MEDICINES, TOILET PREPARATIONS OR PERSONAL CARE PRODUCTS</b>	
	<b>GROUP:</b> subject to item 58500	
◆58560-A	<b>☉Bay Rum:</b>	
Sub 1	In inner containers in boxes or drums.....	85
Sub 2	In bulk in drums.....	65
◆58610-A	<b>☉Charcoal,</b> wood, in tablets, in boxes or drums .....	85
◆58670-A	<b>Condiments,</b> NOI, for animal feeds, tonics or regulators, consisting of barks, herbs, leaves, roots and seeds, ground, in bags, boxes or drums .....	85
△58692-A	NOTE—Will also apply on packages containing surgical instruments or veterinarian supplies not in excess of 5 percent of gross weight of package. Where weight of such articles exceeds 5 percent of gross weight of package, Item 640 will apply.	
◆58710-A	<b>Corn Silk,</b> dry:	
Sub 1	In boxes or drums .....	150
Sub 2	In machine pressed bales .....	85
◆58770-A	<b>☉Drugs or Medicines,</b> NOI, other than toxic or corrosive materials, see Notes, items 58692 and 58772:	
Sub 1	In carboys .....	100
Sub 2	In bags, boxes, drums, pails or Packages 2180, 2407 or 2499, see Note, item 58773 .....	85
△58772-A	NOTE—Will not apply on cocaine, codeine, heroin, morphine or opium, which will not be accepted.	
△58773-A	NOTE—The following departure from packing requirements is permitted: Petroleum jelly, prepared and represented as a remedy, medicine or lubricant for the human body, may be shipped in Package 1000.	
◆58820-A	<b>Fluid,</b> amniotic or fetal, frozen, in inner containers in boxes.....	85
◆58900-A	<b>☉Kits,</b> permanent hair waving, other than electric, in boxes or Package 2407 .....	92.5
◆58920-A	<b>Lard,</b> benzoinated, in inner containers in boxes or drums or in metal cans in crates .....	85
◆58960-A	<b>Malt Tonics,</b> medicinal, in inner containers in boxes or drums.....	85
◆59040-A	<b>Nuts,</b> areca ( <b>Betel Nuts</b> ), ground or powdered, in paper-lined cloth bags or in boxes or drums .....	85
◆59070-B	<b>Perfume or Perfumery,</b> not required by the U.S. Department of Transportation to bear a Hazard Class or Hazard Division label, see Note, item 59421, in boxes, drums or Packages 2189 or 2213 .....	100
◆59080-A	<b>Powder,</b> dental plate adhesive, in inner containers in boxes.....	125
◆59090-A	<b>Powder,</b> sachet or toilet, in boxes, drums or Package 2213 .....	100
◆59100-A	<b>Roots,</b> ground or powdered:	
Sub 1	Gentian, in bags, boxes or drums.....	85
Sub 2	Goldenseal ( <i>hydrastis canadensis</i> ), in boxes or drums.....	300
◆59140-A	<b>Roots,</b> not ground nor powdered:	
Sub 1	Ginseng, in boxes or drums .....	300
Sub 2	Goldenseal ( <i>hydrastis canadensis</i> ), in bales, boxes or drums .....	300
Sub 3	Laurel, in bags, boxes or drums .....	85
Sub 4	Sassafras, in packages .....	85
◆59200-A	<b>Rose Water:</b>	
Sub 1	In inner containers in boxes or drums.....	100
Sub 2	In bulk in drums.....	85
	<b>Sea Grass, Sea Moss or Seaweed:</b> subject to item 59240	
◆59250-A	<b>Agar-Agar (Bengal Isinglass or Ceylon Moss),</b> in bales, boxes, drums or multiple-wall paper bags .....	200
◆59260-A	<b>Carrageen (Irish Moss),</b> in bales, boxes or drums .....	85
◆59270-A	<b>Dulse,</b> in boxes or drums.....	200
◆59300-A	<b>NOI:</b>	
Sub 1	In bags, boxes or drums, or in bales not machine pressed .....	85
Sub 2	In machine pressed bales.....	70
◆59310-A	<b>Semen,</b> bull, frozen, in insulated containers, see Note, item 59312 .....	500
△59312-A	NOTE—Containers must be liquid gas-type refrigerators and must contain sufficient refrigerant to maintain temperatures at 0 degrees Fahrenheit for duration of transportation.	
◆59380-A	<b>Solutions or Distilled Water,</b> intravenous, see Notes, items 59382 and 59384:	
Sub 1	Distilled Water, plain or saline, in glass dispensing containers, in boxes .....	55
Sub 2	Solutions:	
Sub 3	Nutritional or anticoagulant:	
Sub 4	In glass collecting or dispensing containers in boxes .....	55
Sub 5	In plastic collecting bags, in inner containers in boxes .....	85
Sub 6	In plastic dispensing bags within plastic bags, in boxes or in Package 97 .....	55
Sub 7	NOI, in boxes or in Package 97 .....	85
△59382-A	NOTE—Solutions may contain vitamins not exceeding 1 percent of the gross weight of individual collecting or dispensing containers, or alcohol not exceeding 5 percent of the gross weight of individual collecting or dispensing containers.	
△59384-A	NOTE—Also applies on expendable administration sets not in excess of 10 percent of the gross weight of the solutions or distilled water.	
△59421-B	NOTE—Does not apply on materials regulated by the U.S. Department of Transportation as hazardous and required to bear a Hazard Class or Hazard Division label. For classes applicable to such hazardous materials, see provisions elsewhere in this Classification.	
◆59460-A	<b>Witch Hazel Extract:</b>	
Sub 1	In inner containers in boxes or drums.....	85
Sub 2	In carboys .....	100
Sub 3	In bulk in drums.....	65
◆59480-A	<b>Wormseed (Jerusalem Oak Seed),</b> ground or powdered, in bags, boxes or drums.....	85

ITEM	ARTICLE	CLASS
60000-B	<b>Drugs, Chemicals, Medicines and Other Articles Named</b> in items making reference to this item, value declared in writing by the shipper, or agreed upon in writing as the released value of the property, not exceeding \$3.35 per pound, see Notes, items 60002 and 60004, in packages provided in separate descriptions for articles ◆...Cancel; see provisions otherwise applicable.	
60002-B	NOTE—▲...Cancel; no further application.	
60004-B	NOTE—▲...Cancel; no further application.	
◆60260-A	<b>Dye Soap</b> , in boxes or Package 2081 .....	100
◆60280-A	<b>Dyestuffs</b> , NOI, other than poison, in boxes or drums.....	100
	<b>ELECTRICAL EQUIPMENT GROUP:</b> subject to item 60500	
60790-A	<b>Battery Boxes, Covers or Vents</b> , NOI, asphalt composition, impregnated fiber or rubber, etc. ▲...Cancel; obsolete.	
60810-A	<b>Battery Covers, Boxes or Vents</b> , NOI, wooden, etc. ▲...Cancel; obsolete.	
60812-A	NOTE—▲...Cancel; no further application.	
60860-A	<b>Battery Jars or Battery Jar Parts</b> , rubber, etc. ▲...Cancel; obsolete.	
60940-A	◆ <b>Battery Sets</b> , for wet batteries, consisting of battery oil, battery zincs, copper oxide, caustic soda and insulators, with or without battery jars or covers, etc. ▲...Cancel; obsolete.	
60960-A	◆ <b>Battery Sets</b> , in battery boxes, consisting of battery zincs, carbon electrodes and caustic soda or caustic potash, without liquids, etc. ▲...Cancel; obsolete.	
60980-A	<b>Battery Zincs</b> , etc. ▲...Cancel; obsolete.	
◆◆★62190	<b>Headsets</b> , virtual reality ( <b>VR Headsets</b> ), see Note, item 62191, in boxes.....	150
★62191	NOTE—Applies on virtual reality headsets with integral screens or monitors designed to be used standalone or in conjunction with a video game console or computer.	
◆63590-A	<b>Embalming Fluid</b> , in boxes or drums.....	85
	<b>EXTRACTS:</b> subject to item 64350	
◆64400-A	◆ <b>Fustic or Logwood:</b>	
Sub 1	Dry, in bags, boxes or drums .....	85
Sub 2	Liquid or paste, in drums.....	70
	<b>FIREPLACES OR FIREPLACE ACCESSORY GROUP:</b> subject to item 69310	
69420-B	<b>Fireplaces and Related Articles, viz.:</b>	
	<b>Fireplace Inserts</b> , see Notes, items 69422 and 69423, also in Packages 1F, 2F, 3F, 5F, 21F or 22F;	
	<b>Fireplaces or Imitation Fireplaces</b> , NOI, see Note, item 69422, also in Packages 1F, 2F, 3F, 5F, 21F or 22F;	
	◆◆ <b>Grates, Grate Baskets or Grate Parts</b> , with or without electric heating units;	
	◆◆ <b>Heaters, Heat Exchangers or Extractors</b> , fireplace grate type;	
	<b>Logs or Log Sets</b> , electric ( <b>Electric Logs</b> );	
	<b>Logs or Log Sets</b> , gas-fired fireplace ( <b>Gas Logs</b> );	
	In boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 1.....	400
Sub 2	1 but less than 2.....	300
Sub 3	2 but less than 4.....	250
Sub 4	4 but less than 6.....	175
Sub 5	6 but less than 8.....	125
Sub 6	8 but less than 10.....	100
Sub 7	10 but less than 12.....	92.5
Sub 8	12 but less than 15.....	85
Sub 9	15 but less than 22.5.....	70
Sub 10	22.5 but less than 30.....	65
Sub 11	30 or greater.....	60
△69422-B	NOTE—Applies on the articles named, with or without log grates, gas logs, electric logs or heaters, or other accessories in the same package.	
△69423-B	NOTE—When fireplace inserts are shipped in corrugated fiberboard regular slotted style or half-slotted style boxes having a bursting strength of not less than 275 psi and securely strapped on a wood lift truck skid or pallet, gross weight may be increased to not more than 400 pounds.	
69430-A	<b>Grates</b> , fireplace, with electric heating unit, etc. ◆◆...Cancel; see item 69420.	
69440-A	<b>Grates</b> , fireplace, or <b>Grate Baskets</b> , without heating units, or <b>Grate Parts</b> , etc. ◆...Cancel; see item 69420.	
69442-A	NOTE—▲...Cancel; no further application.	
69457-A	<b>Heaters, Heat Exchangers or Extractors</b> , fireplace grate type, with or without blower fan, steel, etc. ◆◆...Cancel; see item 69420.	
	<b>FOODSTUFFS GROUP:</b> subject to item 72000	
◆★72030	<b>Baby Food</b> , NOI, see Note, item 72031, in boxes or Packages 1000, 2093 or 2368, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 15.....	92.5
Sub 2	15 or greater.....	65
★72031	NOTE—Applies only on foodstuffs consisting of fruits, meats or vegetables, with or without other ingredients, specially prepared and represented as baby food.	
◆★72041	<b>Baking Powder</b> , in bags, boxes, drums or Packages 2463, 2498, 2499 or 2500.....	65
◆72120-A	<b>Beans</b> , vanilla or Tahiti, in boxes.....	200
◆★72285	<b>Butters or Spreads</b> , nut or seed, including <b>Peanut Butter</b> , in boxes:	
Sub 1	Powdered .....	77.5
Sub 2	NOI.....	65
◆72620-A	<b>Coffee Extract</b> , liquid, in boxes or drums.....	100
72790-A	<b>Dips</b> , food, prepared, NOI, etc. ◆◆...Cancel; see item 74700.	
72792-A	NOTE—▲...Cancel; no further application.	
◆72860-A	<b>Extracts</b> , meat, with or without a mixture of vegetable extracts, or <b>Soup Tablets</b> , in containers in boxes or drums....	100
△72932-A	NOTE—Not applicable on fresh fish smoked for flavoring only.	



ITEM	ARTICLE	CLASS
<p>◆73200-A ◆73227-A</p>	<p><b>FOODSTUFFS GROUP:</b> subject to item 72000  <b>Food</b>, prepared, NOI, in boxes, drums or Package 223.....  <b>Foodstuffs</b>, other than frozen, <b>Group I, viz.:</b>  <b>Bread, Rolls or Cake</b>, other than fruitcake, in metal cans in boxes;  <b>Cider Syrup (Boiled Cider);</b>  <b>Cocktail Mix</b>, liquid, nonalcoholic, other than beverages, see Note, item 73237;  <b>Compounds</b>, food coating (<b>Prebreeding Mix</b>), milk and egg combined, dry;  <b>Extender</b>, milk powder, blended, see Note, item 73229, also in bags;  <b>Fish or Shellfish</b>, cooked, pickled, preserved, dried, dry salted or smoked, NOI, see Note, item 72932, in glass or metal inner containers in boxes;  <b>Fish Roe</b>, other than caviar; cooked, pickled or preserved;  <b>Fruit</b>, canned or preserved, NOI, other than dried or dehydrated or other than in alcoholic liquor, also in Packages 1000, 1264 or 2288;  <b>Fruit Butter or Pulp</b>, also in Packages 1000, 1264 or 2288;  <b>Fruit or Fruit Peel</b>, drained, or <b>Citrus Fruit Peel</b>, in brine, in glass or metal containers in boxes or crates, also in Package 1264;  <b>Honey</b>, NOI, also in Package 2478;  <b>Ingredients</b>, dinner, NOI, see Note, item 73228, also in Packages 128, 510, 1000, 2421, 2425 or 2507;  <b>Jams, Jellies or Preserves</b>, edible, NOI, also in Packages 1000, 1264, 2288 or 2507;  <b>Juice</b>, fruit, artificial or natural, NOI, or <b>Cider</b>, also in pails or Packages 592, 1000, 1264, 2276, 2288, 2297, 2332, 2400, 2437, 2438, 2467 or 2515;  <b>Meats</b>, cooked, cured or preserved, with or without vegetable, milk, egg or fruit ingredients, NOI, in glass or metal containers in boxes, also in Packages 1400 or 1500;  <b>Milk</b>, condensed or evaporated, liquid or paste, with or without vegetable fats, also in Package 1000, see Note, item 73231;  <b>Milk or Cream Substitutes</b>, other than milk, cream or milk solids, NOI, also in multiple-wall paper bags or Package 2332;  <b>Milk or Cream</b>, sterilized;  <b>Mincemeat;</b>  <b>Molasses</b>, NOI, or <b>Syrup</b>, not medicated, NOI, see Note, item 73232;  <b>Pickles</b>, NOI, see Note, item 73233, also in Packages 579 or 2467;  <b>Pizza Pie Mix</b>, consisting of flour, sauce and yeast, with or without other ingredients;  <b>Puddings;</b>  <b>Rice</b>, cleaned, whole or broken, also in double bags, five-ply multiple-wall paper bags or Packages 2231 or 2382;  <b>Salads</b>, fish, macaroni, meat or vegetable, in glass or metal containers in boxes, also in Package 2303;  <b>Sauces or Toppings</b>, ice cream or dessert, NOI, including <b>Marshmallow Creme; or Nuts (Nutmeats)</b> in syrup or liquor, not pickled; in other than pressurized inner containers; also in Package 2288;  <b>Soups</b>, including <b>Broths or Chowders</b>, other than dry, also in Packages 1000 or 1500, see Note, item 73236;  <b>Syrup</b>, brewers' malt yeast;  <b>Syrup</b>, flavoring or fruit, also in Packages 1000, 2035, 2288, 2402 or 2467;  <b>Vegetables</b>, canned or preserved, NOI, other than dried or evaporated, see Note, item 73235, also in Packages 1000, 1264, 2288, 2303, 2438 or 2508;  <b>Vinegar</b>, also in Package 2332;  In boxes, crates, drums or Packages 1361, 2463, 2498, 2499 or 2500.....</p>	<p>85</p>
<p>△73228-A</p>	<p>NOTE—Applies only on mixtures of dry ingredients, cooked or not cooked; or on dry ingredients, cooked or not cooked, and ingredients other than dry in separate inner containers from the dry ingredients.</p>	<p>60</p>
<p>△73229-A 73230-A</p>	<p>NOTE—Applies on mixtures of dried whey, wheat flour, soya protein concentrate and nonfat dried milk powder. NOTE—▲...Cancel; see item 72031.</p>	
<p>△73231-A</p>	<p>NOTE—Does not apply on material represented as vitamins or vitamin concentrates.</p>	
<p>△73232-A</p>	<p>NOTE—When in friction top cans or pails in boxes, the cans or pails must fit tightly within the box.</p>	
<p>△73233-A</p>	<p>NOTE—Applies on nuts or vegetables, NOI, pickled in brine or vinegar, and on fruits, NOI, pickled in vinegar.</p>	
<p>73234-A</p>	<p>NOTE—◆□...Cancel; see item 74700.</p>	
<p>△73235-A</p>	<p>NOTE—Also applies on:  <b>Hominy;</b>  <b>Juice</b>, pimiento;  <b>Juice</b>, tomato;  <b>Juice</b>, vegetable, NOI;  <b>Mush;</b>  <b>Mushrooms</b>, other than truffles;  <b>Oats;</b>  <b>Olives;</b>  <b>Paste</b>, tomato;  <b>Pimientos;</b>  <b>Pork and Beans;</b>  <b>Potatoes and Cheese</b>, in sauce;  <b>Pulp</b>, tomato;  <b>Puree</b>, tomato;  <b>Rice;</b>  <b>Scrapple;</b>  <b>Tomatoes;</b>  <b>Wheat.</b></p>	
<p>△73236-A</p>	<p>NOTE—When commodities are hot packed, Package 1500 may be modified to include trays of 150-pound-test when flange height is two inches and the heat shrinkable film is of 3-mil thickness. Film enclosure of completed package may have end openings.</p>	

ITEM	ARTICLE	CLASS
	<b>FOODSTUFFS GROUP:</b> subject to item 72000	
△73237-A	NOTE—Applies on compounds designed as a base or flavoring for alcoholic mixed drinks.	
◆73380-A	<b>Gelatin or Pectin</b> , NOI, in bags, boxes or drums .....	70
◆74030-A	<b>Milk Food</b> , including <b>Infant Formula</b> , other than malted milk, other than liquid, in boxes, drums or Package 1428, see Note, item 74032.....	85
△74032-A	NOTE—Each inner package may contain not to exceed one 1-ounce package of vitamins, one feeding nipple, one tube of ointment not exceeding one-half ounce, one plastic cup, or packets of artificial flavoring not to exceed a combined weight of one-half ounce.	
◆★74510	<b>Purees</b> , fruit or vegetable, including <b>Applesauce</b> :	
Sub 1	In pouches, in boxes.....	70
Sub 2	NOI, in boxes, drums or Packages 1000, 1264, 2288, 2463, 2498, 2499 or 2500 .....	60
◆◆74700	<b>Sauces, Condiments, Dips or Spreads</b> , other than dry, <b>viz.:</b>	
	<b>Barbecue Sauce;</b>	
	<b>Condiments</b> , NOI;	
	<b>Dips</b> , NOI;	
	<b>Gravy;</b>	
	<b>Horseradish</b> , prepared;	
	<b>Hot Sauce or Pepper Sauce;</b>	
	<b>Ketchup (Catsup);</b>	
	<b>Marinades;</b>	
	<b>Mayonnaise;</b>	
	<b>Mustard</b> , prepared;	
	<b>Salad Dressing</b> , including <b>Vinaigrette;</b>	
	<b>Salsa;</b>	
	<b>Sandwich Spreads</b> , NOI, including <b>Cheese Spreads;</b>	
	<b>Sauces</b> , basic food, NOI, including <b>Marinara, Pizza or Spaghetti Sauce;</b>	
	<b>Sauces</b> , cooking or dipping, NOI;	
	<b>Soy Sauce;</b>	
	In boxes, drums or Packages 1204, 1400, 1429, 2093, 2288, 2303, 2332, 2438, 2463, 2467, 2498, 2499 or 2500 .....	65
◆★74737	<b>Shells, taco, or Tortillas</b> , soft, in boxes .....	70
◆75480-A	<b>Yeast</b> , dry, in bags, boxes or drums .....	85
◆75490-A	<b>Yeast</b> , liquid, in inner containers in boxes or drums or in bulk in drums .....	150
◆75550-A	☉ <b>Footwarmer or Hot Bottle Charges</b> , chemical, in boxes or drums.....	85
	<b>FURNITURE GROUP:</b> subject to item 79000	
79469-A	<b>Furniture</b> , one-half scale display replicas, fiberboard building board or wood particleboard with facings of other than wood veneer, with or without components of other materials, SU, etc. ▲...Cancel; obsolete.	
	<b>GASES OR CRYOGENIC LIQUIDS GROUP:</b> subject to item 85500	
◆★86070	☉ <b>Oxygen</b> , recreational, in handheld canisters or containers, in U.S. DOT-authorized packaging:	
Sub 1	Offered for transportation as a Hazard Class 2, Division 2.2, see Note, item 86071, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 6 .....	250
Sub 3	6 or greater .....	150
Sub 4	Not offered for transportation as a Hazard Class 2, Division 2.2, see Note, item 86072, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 5	Less than 6 .....	200
Sub 6	6 or greater .....	125
★86071	NOTE—Applies on materials regulated by the U.S. Department of Transportation as a Hazard Class 2, Division 2.2, Nonflammable Gas, as defined in 49 CFR §173.115 and required to bear a notice to that effect on bills of lading and packaging.	
★86072	NOTE—Applies on materials moving under Special Permit DOT-SP 10704, or a limited quantity exception as defined in 49 CFR §173.306.	
	<b>GREASE:</b> subject to item 90800	
◆90930-A	<b>Lanolin</b> , in boxes or drums.....	85
	<b>GUMS:</b> subject to item 91100	
◆91140-A	<b>Aloes</b> , in drums.....	85
◆91160-A	<b>Amber</b> , in boxes.....	125
◆91180-A	<b>Arabic</b> , in bags, boxes or drums.....	85
◆91200-A	<b>Balata</b> , loose or in packages .....	100
◆91220-A	☉ <b>Box Toe:</b>	
Sub 1	In inner containers in boxes or drums .....	85
Sub 2	In bulk in drums .....	77.5
◆91240-A	<b>Camphor</b> , in boxes or drums.....	100
◆91260-A	<b>Chewing Gum Base</b> , see Note, item 91262, or <b>Chicle</b> , in bags, boxes or drums .....	85
△91262-A	NOTE—Applies on natural gums, NOI, prepared as chewing gum base or gums compounded as a chewing gum base, but will not apply on finished chewing gum.	
◆91380-A	<b>Gums</b> , natural, NOI, in bags, bales, boxes or drums .....	100
◆91400-A	<b>Iles</b> , ground, in bags or boxes .....	92.5
◆91420-A	<b>Karaya</b> , in bags, bales, boxes or drums .....	85
◆91440-A	<b>Kawrie (Kauri)</b> , in bags, bales, boxes or drums .....	77.5
◆91480-A	<b>Olibanum</b> , in bags, bales, boxes or drums.....	77.5
◆91500-A	<b>Pontianac</b> , in bags, bales, boxes or drums .....	77.5
◆91520-A	<b>Sandarac</b> , in bags, bales, boxes or drums .....	100
◆91540-A	<b>Shellac</b> , in bags, bales, boxes or drums.....	85

SUPPLEMENT 4 TO NMF 100-AS

ITEM	ARTICLE	CLASS
	<b>GUMS:</b> subject to item 91100	
◆91560-A	<b>Spruce</b> , in bags, boxes or drums.....	85
◆91780-A	<b>Gutta-percha</b> , in boxes.....	85
◆99820-A	<b>Hoof Dressing or Animal Ointment</b> , in boxes or drums.....	85
	<b>HOUSEHOLD GOODS GROUP:</b> subject to item 100200	
△100241-A	NOTE—Provisions for household goods, personal effects or military baggage apply only on second-hand (used) household or personal effects such as clothing, personal property, furniture or furnishings for residence with not to exceed one piano. There may also be included not to exceed one second-hand (used) motor vehicle. Provisions do not apply on articles of extraordinary value, nor on goods shipped for sale or speculation.	
△100244-A	NOTE—Household goods, personal effects or military baggage susceptible to breakage or having surfaces liable to damage must be protected by packing materials necessary to afford adequate protection against breakage or damage.	
△100245-A	NOTE—The following departures from packing requirements are permitted: 1. Carpets or rugs may be shipped in wrapped bundles or rolls. 2. Mattresses or upholstered box springs may be shipped wrapped in fiberboard, plastic film or quilted pads. 3. Refrigerators may be shipped wrapped in fiberboard and skidded, or wrapped in quilted pads.	
△100250-A	<b>Household Goods, Personal Effects or Military Baggage</b> , see Note, item 100241, moving under the U.S. Department of Defense Personal Property Program, see Note, item 100251, in boxes or crates, see Notes, items 100244 and 100245.....	0
◎100251-A	NOTE—Pursuant to 10 USC Chapter 157, §2636a, enacted by Congress on November 26, 2003, as amended by the Department of Defense Authorizations Act for Fiscal Year 2007, Transportation Service Providers (TSPs) are required to provide Full Replacement Value (FRV) coverage to all customers of the U.S. Department of Defense Personal Property Program. FRV is defined as the greater of: (1) ◆\$7,500 per shipment; or (2) ◆\$6.00 times the net weight of the household goods shipped or ◆\$6.00 times the gross weight of the unaccompanied baggage shipped, in pounds, not to exceed ◆\$75,000. This definition of FRV does not apply on motor vehicles, including automobiles or motorcycles.	
	<b>LAMPS OR LIGHTING GROUP:</b> subject to item 109000	
109110-A	<b>Flashlights, Searchlights or Spotlights</b> , electric, ▲handheld, with power supply cord, with or without complementary battery packs, see Note, item 109112, in boxes.....	◆150
109112-A	NOTE—Applies only on units ▲that are designed to plug into battery packs or boat or vehicle power outlet receptacles.	
△109700-B	<b>Lamps or Lighting Fixtures</b> , see Notes, items 109701, 109702, 109703 and 109704, viz.: <b>Floor Standing Lamps</b> , with or without integral tray, also in Package 817; <b>Fluorescent or High Intensity Discharge (HID) Lighting Fixtures</b> , NOI, with equipment of transformer or ballast, also in Packages 220, 233, 790, 919, 1406, 2228, 2312, 2477 or 2533, see Note, item 109705; <b>Housings</b> , recessed incandescent lighting fixture; <b>Lamps</b> , artificial sunlight, heating or therapeutic; <b>Lamps</b> , NOI, also in Packages 794, 817, 1424, 1467, 2204 or 5F; <b>Lighting Fixtures</b> , NOI; <b>Parts</b> , lamp, lantern or lighting fixture, NOI; <b>String Lights or Rope Lights</b> , including <b>Christmas or Holiday String Lights or Rope Lights</b> ; In boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of, see Note, item 109706:	
Sub 1	Less than 1.....	400
Sub 2	1 but less than 2.....	300
Sub 3	2 but less than 4.....	250
Sub 4	4 but less than 6.....	175
Sub 5	6 but less than 8.....	125
Sub 6	8 but less than 10.....	100
Sub 7	10 but less than 12.....	92.5
Sub 8	12 but less than 15.....	85
Sub 9	15 but less than 22.5.....	70
Sub 10	22.5 but less than 30.....	65
Sub 11	30 or greater.....	60
△109701-B	NOTE—One lightbulb (light bulb) for each socket may be included in same box with lamp or lighting fixture.	
△109702-B	NOTE—The quantity of globes, shades, reflectors or similar devices must not exceed the number required to equip the articles with which shipped.	
△109703-B	NOTE—Lighting fixtures are lighting devices designed for permanent wiring to walls, ceilings, floors, posts or other similar mountings.	
109704-B	NOTE—Does not apply on electric lighting fixtures equipped with posts or poles exceeding ◆◆96 inches in greatest dimension. Provisions for such lighting fixtures are found in ▲item 161145.	
△109705-B	NOTE—Accompanying equipment of iron or steel or plastic reflectors may be in packages.	
△109706-B	NOTE—When lamps or lighting fixtures and their complement of globes, shades or reflectors are in separate packages, the density for determining the applicable provisions must be the result of the division of the total weight of all packages by the total cubage (cubic displacement) of all such packages.	
◆109800-A	<b>Lanterns or Flashlights</b> , electric, handheld, NOI, with or without complement of batteries, in boxes.....	110
◆111180-A	<b>Licorice (Licorice Extract)</b> ; mass, in boxes, drums or Package 1276; or powdered, in cloth or five-ply paper bags or in boxes or drums.....	85

ITEM	ARTICLE	CLASS
114000-A	<b>MACHINERY GROUP:</b> Articles consist of Machinery or Machines, or Parts Named, ☐see Notes, items 114012, 114014 and 114018, as described in items subject to this grouping.	
△114012-A	NOTE—Shipments of machinery or machines, loose or on skids, must have small detachable parts removed and shipped in boxes or drums. Such boxes or drums must be specified on shipping orders and bills of lading. Fragile parts not detached must be protected.	
△114014-A	NOTE—Unless otherwise provided, parts or pieces weighing 50 pounds or over of KD machinery and machines maybe accepted loose or on skids and classed as in packages when such parts or pieces are shipped with the articles of which they form a part and classes are provided for such KD machinery or machines in packages.	
△114018-A	NOTE—Except as noted in individual items, motors forming an integral part of a complete machine and shipped therewith will be classed the same as the machine of which it forms a part.	
114022-A	NOTE—☐...Cancel; see Item 680, Sec. 16(b).	
114024-A	NOTE—☐...Cancel; see Item 680, Sec. 16(a).	
◆☐123820-A	<b>Kilns</b> , brick drying or hardening, in boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 8 .....	175
Sub 2	8 or greater .....	92.5
123840-A	<b>Kilns</b> , enameling, or china, earthenware or pottery firing, ☐in boxes or crates, see Note, item 123842.....	◆110
△123842-A	NOTE—Finished surfaces liable to damage by other freight must be protected.	
123860-A	<b>Kilns</b> , iron, NOI, KD ◆...Cancel; see provisions otherwise applicable.	
◆135380-A	<b>METALS GROUP:</b> subject to item 135300	
◆135530-A	☉ <b>Arsenic</b> , metallic, in boxes or drums.....	100
◆136040-A	<b>Calcium</b> , metallic, in boxes .....	100
◆136140-A	<b>Quicksilver (Metallic Mercury)</b> , in inner containers in boxes or drums, in iron flasks, or in Package 802.....	200
◆138360-A	<b>Scrap</b> , NOI, cadmium, in bags, boxes or drums .....	85
	<b>Mordants</b> , NOI, in inner containers in boxes or drums, or in bulk in drums.....	85
	<b>OILS, OTHER THAN PETROLEUM:</b> subject to item 144600	
◆144640-A	☉ <b>Aniline:</b>	
Sub 1	In inner containers in boxes .....	85
Sub 2	In drums.....	70
◆144660-A	<b>Apricot or Peach Kernel</b> , in boxes or drums .....	85
◆144700-A	<b>Castor</b> , NOI:	
Sub 1	In inner containers in boxes or drums .....	92.5
Sub 2	In boxes or drums .....	85
◆144780-A	<b>Cod Liver:</b>	
Sub 1	In inner containers in boxes .....	92.5
Sub 2	In boxes or drums .....	85
◆144940-A	<b>Fish Liver</b> , edible or medicinal, NOI, in boxes or drums .....	85
	<b>PAPER ARTICLES GROUP:</b> subject to item 152000	
152220-A	<b>Box Straps or Strapping</b> , fiberboard, etc. ▲...Cancel; obsolete.	

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ITEM	ARTICLE	CLASS
161100-A	<b>POSTS OR POLES:</b> ▲...Cancel; no further application.	
▲161120-A	<b>Posts</b> , bumping.....	50
◆◆□★161145	<b>Posts or Poles</b> , utility, including <b>Lighting, Telephone or Electric Railway Posts or Poles, or Sections thereof</b> , see Notes, items 161146 and 161147, in packages, see Note, item 161148:	
Sub 1	Greatest dimension exceeding 288 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 5.....	500
Sub 3	5 but less than 10.....	250
Sub 4	10 or greater.....	100
Sub 5	Greatest dimension exceeding 192 inches but not exceeding 288 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 6	Less than 5.....	500
Sub 7	5 but less than 10.....	200
Sub 8	10 or greater.....	92.5
Sub 9	Greatest dimension exceeding 96 inches but not exceeding 192 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 10	Less than 5.....	400
Sub 11	5 but less than 10.....	175
Sub 12	10 or greater.....	85
Sub 13	Greatest dimension not exceeding 96 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 14	Less than 5.....	300
Sub 15	5 but less than 10.....	150
Sub 16	10 or greater.....	77.5
★161146	NOTE—Also applies on posts or poles with affixed or integral mast arms or brackets.	
★161147	NOTE—On lighting posts or poles exceeding 96 inches in greatest dimension, provisions apply with or without electric lighting fixtures or other electric components.	
□★161148	NOTE—When shipped on lift truck skids, pallets or platforms, posts or poles must be secured on and must not overhang the lift truck skid, pallet or platform deck.	
161150-A	<b>Lamp, Electric Wire, Telephone, Telegraph, Electric Railway, or Sections thereof</b> , etc. ▲...Cancel; see item 161145.	
161152-A	NOTE—▲...Cancel; no further application.	
161153-A	NOTE—▲...Cancel; see item 161147.	
161154-A	NOTE—▲...Cancel; no further application.	
161160-A	Aluminum, or aluminum and steel combined, etc. ◆◆□...Cancel; see item 161145.	
161170-A	Brass, bronze or copper, etc. ◆◆□...Cancel; see item 161145.	
161180-A	Cement or concrete, etc. ◆◆□...Cancel; see item 161145.	
161200-A	Iron or steel, with electric fixtures attached, etc. ◆◆□...Cancel; see item 161145.	
161210-A	Iron or steel, without electric fixtures, etc. ◆◆□...Cancel; see item 161145.	
161220-A	Iron or steel and brass, bronze or copper combined, etc. ◆◆□...Cancel; see item 161145.	
161240-A	Wooden, etc. ◆◆□...Cancel; see item 161145.	
◆162870-A	<b>Psyllium Seed (Flea Seed) Hulls:</b>	
Sub 1	In inner containers in boxes or drums.....	100
Sub 2	In bags.....	85
◆163030-A	◆Pyroxylin Solutions, NOI (liquid or jelly pyroxylin, including collodion):	
Sub 1	In glass in boxes or drums.....	100
Sub 2	In inner containers in boxes or drums, or in bulk in drums.....	85
◆169320-A	<b>Rennet Extract</b> , dry, in boxes or drums.....	100
◆169340-A	<b>Rennet Extract</b> , liquid:	
Sub 1	In containers in boxes or drums.....	100
Sub 2	In inner containers in boxes, see Note, item 169342, or in bulk in drums.....	85
△169342-A	NOTE—Applies only when plastic container is of 5 gallon or greater capacity.	
◆170060-A	<b>ROOFING OR SIDING MATERIALS GROUP:</b> subject to item 170000 <b>Cement</b> , roofing, NOI, not required by the U.S. Department of Transportation to bear a Hazard Class or Hazard Division label, see Note, item 170061, in containers in boxes or in drums, pails or Package 2080.....	55
★170061	NOTE—Does not apply on materials regulated by the U.S. Department of Transportation as hazardous and required to bear a Hazard Class or Hazard Division label. For classes applicable to such hazardous materials, see provisions elsewhere in this Classification.	
◆171410-A	◆Rubber Accelerators or Softeners, NOI, in boxes, drums, four-ply paper bags, paper-lined cloth bags or Package 361:	
Sub 1	Regulated by the DOT as a hazardous material.....	100
Sub 2	Not regulated by the DOT as a hazardous material.....	70
◆172180-A	◆Rum, denatured:	
Sub 1	In inner containers in boxes or drums.....	85
Sub 2	In bulk in drums.....	70
◆172990-A	<b>SEEDS:</b> subject to item 172750 <b>Cardamon</b> , see Note, item 174002, in boxes.....	150
◆173740-A	<b>Seeds</b> , NOI, see Note, item 174002, in bags, boxes or drums.....	100
△174002-A	NOTE—Will also apply on seed or soil inoculating bacteria or agricultural insecticides or fungicides, not exceeding 2 percent of the gross weight of the shipment, when in the same shipping container with seeds.	
◆178720-A	<b>Starch</b> , arrowroot:	
Sub 1	In inner containers in boxes or drums.....	85
Sub 2	In bulk in bags or drums.....	60
◆□179570-A	<b>Strapping</b> , box or package, synthetic fiber ( <b>Cord Strapping</b> ) or plastic, in boxes.....	70

SUPPLEMENT 4 TO NMF 100-AS

ITEM	ARTICLE	CLASS
◆179960-A	<b>Sumac Leaves:</b>	
Sub 1	In bags, or in bales not machine pressed .....	100
Sub 2	In machine pressed bales .....	70
◆◆□★187130	<b>Traps</b> , bullet or target, in boxes or crates, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 1	Less than 10 .....	125
Sub 2	10 but less than 15 .....	92.5
Sub 3	15 or greater .....	70
190100-A	<b>VEHICLES, MOTOR:</b> □see Note, item 190124	
190122-A	NOTE—□...Cancel; see Item 680, Sec. 16(b).	
△190124-A	NOTE—When motive power is motors driven by electric storage batteries instead of internal combustion engine, electrical connections to batteries must be disconnected so that circuit cannot be unintentionally closed.	
	<b>WAX:</b> subject to item 196560	
◆196580-A	<b>Beeswax</b> , in packages .....	85
◆196600-A	<b>Candelilla</b> , in bags, boxes or drums .....	85
◆196640-A	<b>Carnauba</b> , in bags, boxes or drums .....	100
◆196720-A	<b>Japan</b> , in bags, boxes or drums .....	85
◆196760-A	<b>Montan</b> , in bags, boxes or drums .....	85
◆196860-A	<b>Vegetable</b> , NOI, in bags, boxes or drums .....	85

Only participants in the NMFC at the time the transportation occurs may use the provisions herein.  
For explanation of abbreviations and reference marks, see last page of this Supplement. ©NMFTA 2019

**SPECIFICATIONS FOR NUMBERED PACKAGES**

**Package 392**

Cancel; no further application.

**Package 2000**

Cancel; no further application.

**Package 2287**

Cancel; obsolete.

**Package 2316**

Cancel; no further application.

**Package 2430**

Cancel; no further application.

**Package 2449**

Cancel; no further application.

**Package 2462**

Cancel; no further application.

**CARRIER BEST PRACTICES****ITEM 500100-A****▲DEFINITION OF STANDARD LTL PICKUP AND/OR DELIVERY SERVICE**

Standard LTL (Less Than Truckload) service involves freight moving from and to a business located in a commercial area where both the pickup and/or delivery can be performed at trailer-height loading docks with no specialized equipment required from the carrier. Pickup and/or delivery service is to be performed by only one person during carrier's normal business hours, without prior arrangement or notice, and should not exceed 30 minutes per pickup and/or delivery. Carrier's obligation is to deliver the freight as it was tendered to the carrier by the shipper. Services such as sorting, segregating, consolidating, deconsolidating, re-stacking or restructuring any portion of the shipment are not considered standard.



**MODEL AGREEMENTS****★ITEM 600100****MODEL TRANSPORTATION CONTRACT**

NMFTA has developed a Model Transportation Contract designed to set forth sample terms and conditions for transportation services or arrangements provided by a motor carrier to a shipper or broker. The Model Transportation Contract is available for use exclusively by motor carriers participating in the NMFC. For more information, please contact NMFTA Customer Service at [customerservice@nmfta.org](mailto:customerservice@nmfta.org) or 866-441-6632.

**★ITEM 600200****MODEL MOTOR CARRIER INTERLINE AGREEMENT**

NMFTA has developed a Model Motor Carrier Interline Agreement designed to set forth sample terms and conditions for agreements between motor carriers handling interline shipments. The Model Motor Carrier Interline Agreement is available for use exclusively by motor carriers participating in the NMFC. For more information, please contact NMFTA Customer Service at [customerservice@nmfta.org](mailto:customerservice@nmfta.org) or 866-441-6632.

**★ITEM 600300****MODEL NON-DISCLOSURE AGREEMENT**

NMFTA has developed a Model Non-Disclosure Agreement designed to set forth sample terms and conditions for agreements between a motor carrier and a shipper or broker to not disclose proprietary information each party deems confidential. The Model Non-Disclosure Agreement is available for use exclusively by motor carriers participating in the NMFC. For more information, please contact NMFTA Customer Service at [customerservice@nmfta.org](mailto:customerservice@nmfta.org) or 866-441-6632.

**EXPLANATION OF ABBREVIATIONS AND REFERENCE MARKS**

<b>Abbreviation or Reference Mark</b>	<b>Explanation</b>	<b>Abbreviation or Reference Mark</b>	<b>Explanation</b>
ASTM	ASTM International	Sec.	Section
Avdp.	Avoirdupois	sq.	square
°C	degree Centigrade (Celsius)	sq. ft.	square foot; square feet
CFR	Code of Federal Regulations	sq. in.	square inch(es)
cm	centimeter(s)	STB	Surface Transportation Board
COD	Collect on Delivery	SU	Set Up
Cont'd	Continued	t/a	trading as
cu	cubic	t/d/b/a	trading and doing business as
cu. ft.	cubic foot; cubic feet	™	Trademark
DOT	Department of Transportation	UN	United Nations
d/b/a	doing business as	U.S.	United States
etc.	et cetera (and other things, or the rest; and so forth)	USC	United States Code
°F	degree Fahrenheit	viz.	namely
g	gram	vol.	volume
gal	gallon(s)	vs.	versus
in.	inch(es)	&	and
incl.	inclusive	°	degree
ISTA	International Safe Transit Association	%	percent
KD	Knocked Down	§	Section
kg	kilogram	☠	Indicates commodity or commodities may be subject to special federal regulations concerning the shipping of hazardous materials. See Item (Rule) 540 herein.
kPa	Kilopascal	⬇	Indicates reduction
L	liter	⬆	Indicates increase
lbs.	pounds	▲	Indicates change in wording which results in neither an increase nor reduction
m	meter(s)	☐	Indicates change in packaging
ml	milliliter(s)	⚠	Indicates that the item is being brought forward without change
mm	millimeter(s)	★	Indicates new item, package or participating carrier
MPa	Megapascal	Ⓐ	Addition to Index to Articles
NMFC	National Motor Freight Classification	Ⓑ	Eliminate from Index to Articles
NMFTA	National Motor Freight Traffic Association, Inc.	Ⓒ	Change in Index to Articles
NOI	Not more specifically described herein	Ⓔ	These provisions are subject to the expiration date as shown in Item (Rule) 535.
o/a	operating as	Ⓒ	Changes are effective December 5, 2019, and are made reflective of the August 20, 2019, update to the Defense Transportation Regulations.
oz.	ounce(s)	⓪	The participation of this carrier is CANCELED; provisions of this Classification no longer apply for account of this carrier.
pcf	pounds per cubic foot	Ⓟ	Under postponement
psi	pounds per square inch	®	Registered trade name or registered trademark
qt.	quart	⊕	Effective December 5, 2019, under authority of 49 CFR §1312.6(b)(3).
RSorL	Classed the same or lower	●	Indicates correction of printing error
r.p.m.	revolutions per minute		
SCAC	Standard Carrier Alpha Code — The SCAC (alpha code) listings in this Classification represent only those carriers participating in the NMFC. For a complete listing of all assigned alpha codes, see the Directory of Standard Carrier Alpha Codes, NMF 101.		

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