

USER GUIDE DANGEROUS GOODS

LogTrade Connect for Microsoft Dynamics 365 Business Central



1 GENERAL

This document describes how to setup dangerous goods (hazardous goods), both in general and for each item. Dangerous goods are always handled as additional services for each carrier. The selection of the additional service is done automatically in Logtrade Connect based on settings for each item.

2 SETUP

Settings is done in both as general and for each item. Below is explanation of the settings.

2.1 SEA TRANSPORT DEFINITIONS

If a transport will be performed on water, it is important to print the *Multimodal Dangerous Goods Document*. By setting up zip code intervals for shipping *From* and *To* you can specify when the transport will be performed on the water. Search for *Sea Transport Definitions* to open the list.

Sea Transport Definitions	
Go to Pages and Tasks	

In the *Sea Transport Definitions,* you specify from and to zip code intervals when you want a *Multimodal Dangerous Goods Document.* This can be done for specific carriers and products or for all at once. The example below shows a setup based on that the island Gotland in Sweden needs transport on water. Since both the transport to Gotland and back will be on water I have registered zip code intervals for both directions.

Sea Transport	t Definitions	Work Date: 7	1/27/2022						🗸 Saved 🔲 🗖 🦯
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Shippin	g Agent Code †		Shipping Agent Service Code ↑	Pickup Country Code †	From Pickup Post Code 1	To Pickup Post Code †	Delivery Country Code †	From Delivery Post Code	To Delivery Post Code †
\rightarrow				SE	10000	61999	SE	62100	62470
				SE	62100	62470	SE	10000	61999
				SE	62100	62470	SE	62471	99999
				SE	62471	99999	SE	62100	62470

2.2 DANGEROUS GOODS

The first setting is to register the generic Dangerous Goods register that in the item setting will be selected to each item that is classified as dangerous goods. Search for *Dangerous Goods* to open the list.





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\leftarrow	Dangerous Goods							✓ Saved	0 4	7 ^K	
	\wp Search + New	😨 Edit List 👔 Delete 🛛 🚺 Open in Excel							7	=	
	Code ↑	Description	Description 2	UN No.	Classification Code	Packing Group	Tunnel Restrictions	IMDG Flaming Point	IMDG Marine Pollut		
	\rightarrow 1	ACETON	ACETON	1090	3	II - medium da	(D/E)	< 23°C			
	10	METANOL	METHANOL	1230	3	II - medium da	(D/E)	9°C			
	11	METYLISOBUTYLKETON	METHYL ISOBUTYL KETONE	1245	3	II - medium da	(D/E)	< 23°C			
	12	N-PROPANOL	N-PROPANOL (PROPYL ALCOHOL, N	1274	3	III - low danger	(D/E)	23 - 60°C			
	13	FRÄTANDE VÄTSKA, N.O.S.	CORROSIVE LIQUID, N.O.S.	1760	8	II - medium da	(D/E)	62°C			
	14	AEROSOLER	AEROSOLS	1950	2		(D)				
	15	ALKOHOLER, N.O.S. (ETANOL , PROPAN-2-OL)	ALCOHOLS, N.O.S. (vapour pressure a	1987	3	II - medium da	(D/E)	< 23°C			
	16	ALKOHOLER, N.O.S. (ETANOL ; PROPAN-2-OL)	ALCOHOLS, N.O.S.	1987	3	III - low danger	(D/E)	23 - 60°C			
	17	ALKOHOLER N.O.S (ETANOL, ISOPROPYLALKO	ALCOHOLS, N.O.S. (vapour pressure a	1987	3	II - medium da	(D/E)	< 23°C			
	18	BRANDFARLIG VÄTSKA, N.O.S. (ETANOL, BUTA	FLAMMABLE LIQUID, N.O.S. (vapour p	1993	3	II - medium da	(D/E)	< 23°C			
	19	BRANDFARLIG VÄTSKA, N.O.S. (DIPENTENE, TE	FLAMMABLE LIQUID, N.O.S. (having a	1993	3	III - low danger	(D/E)	< 23°C			
	2	BUTANOLER	BUTANOLS	1120	3	III - low danger	(D/F)	23 - 60°C		-	

The following fields are available in the Dangerous Goods setup:

Code – Internal code for the dangerous goods setting

Description - Description in local language

Description 2 – English description

UN No. – A four-digit number that identify dangerous goods, hazardous substances and articles (such as explosives, flammable liquids, toxic substances, etc.) in the framework of international transport.

Classification Code – Dangerous goods substances and articles are allocated to one of 9 classes. Some of these classes are subdivided into divisions, for example Explosives, Gases, Flammable liquids etc.

Packing Group – Dangerous goods are assigned into 3 packing groups (also known as **UN Packing Group**) in accordance with **the degree of danger** they present:

- Packing Group I: high danger
- Packing Group II: medium danger
- Packing Group III: low danger





Tunnel Restrictions – The tunnel restriction code defines which tunnels can be driven through by which hazardous goods transports. All tunnels in the European Union are allocated to a tunnel restriction category. There are five categories in total. Generally speaking, it can be said: the higher the tunnel category, the higher the restrictions.

- A No restriction for hazardous goods.
- **B** Prohibited for the transport of hazardous substances which could cause a very large explosion.
- **C** The same restriction as for B, plus hazardous goods which could cause a large explosion or the extensive release of toxic substances.
- **D** The same restrictions as for C plus hazardous goods which could cause a large fire.
- **E** Prohibited for the transport of all hazardous substances. There are some exceptions for certain radioactive substances, clinical waste and samples.

IMDG Flaming Points – Flashpoint means the lowest temperature of a liquid at which its vapour forms an ignitable mixture with air. Flashpoint gives a measure of the risk of formation of explosive or ignitable mixtures when the liquid escapes from its packing.

IMDG Marine Pollutant - IMDG Code identifies a substance, material or article as MARINE POLLUTANT with the criteria based on those developed by the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), as amended.

2.3 DANGEROUS GOODS ITEM SETUP

All items that are classified as dangerous goods needs to be setup, so the correct values are printed on the documents and also sent electronically to the carrier if applicable.

The setting can be reach from the Item Card by clicking *Related / Delivery / Dangerous Goods*, see screenshot below. This will open the dangerous goods settings for this particular item.



Below you see the dangerous goods settings for item 1088, Denatured Ethanol. This item is sold both in 3-liter boxes and on a pallet that has 100 boxes. This means that dangerous goods quantities differs and also classification can be different. See screenshot below as example of settings for this item.





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	\leftarrow	1088	Work Date: 1/27/2022										√ Savec	⊢∏ ⊂′,≝		
		Dang	gerous Goods Item Setti	ngs	✓ Search	+ New	🐯 Edit List	📋 Delete	Open	n in Excel				∑ ≣		
			Unit of Measure Code ↑		Sea Transport ↑	Danger Code ↑	ous Goods	Package	es per Unit	Package Type Code	Quantity Limitation	Gross Weight	Net Weight	Volume		
			PCS			16			1	BOX	Limited	8.64	7.98	0.009		
		\rightarrow	PALLET	1		16			100	BOX		864	798	0.9		

The following fields are available in the Dangerous Goods Item Setup:

Unit of Measure Code – The setting on this line is for this Unit of Measure Code since dangerous goods can be different for different units.

Sea Transport – Defines if this setting line is only for Sea Transport, Not for Sea Transport or for Both. For example, when shipping on road the Quantity Limitation setting below could be *Limited* (blank) but for water transport it could be regular dangerous goods.

Dangerous Goods Code – Refers to the general settings described in the chapter above about classification.

Packages per Unit – Number of dangerous goods packages when sold in specified Unit of Measure.

Package Type Code – What type of package the dangerous goods are packed in, ca be different than the selling unit.

Quantity Limitation – Defines if any limitation should apply. The options are:

- Blank (regular)
- Limited According to the regulations for shipping dangerous goods, for the majority of UN numbers, it is possible to use a mode of transport defined "Limited Quantity". This kind of transport simplify some aspects related to the shipping, but it is important that some parameters are met.
- Excepted Certain dangerous goods, when shipped in very small quantities, and when packaged in usertested packaging configurations, are subject to less stringent regulations.

Gross Weight - Weight including package materials for the item in the unit it is sold.

Net Weight – Weight for the material itself without packaging materials.

Volume – Net volume for the goods that is being shipped.



3 PROCESS

The example below shows an order shipped with DB Schenker System domestic in Sweden. The delivery does not require transportation on water. On the order I have added two items. Both require dangerous goods, one of them is only Limited Quantity but the whole consignment will be classified as regular dangerous goods since they are shipped together.

See order in screenshot below.

amics 3	365 Business Central												¢ Ø	?
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	1007 · Mar	sholm	Karmstol											
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	General								Show more	① Details	Attachm	ents (0)		
	No.		1007		Due Date		/23/2021			Sell-to Cus	tomer Sales	History		
	Customer Name		Marsholm Karmstol		Requested Delivery	Date · · · · · ·				Customer No.		46	251425	
	Contact				External Document	No				0	0	3		
	Posting Date		5/23/2021	m	Status	· · · · · · · · · · · · · · · · · · ·)pen			, in the second s	Ourseling Select	Oracles Celes		
	Order Date		5/23/2021	Ē						Ongoing Sales Quotes	Ongoing Sales Blanket Orders	Ongoing Sales Orders		
										0	0	0		
	Lines Manag	e More o	ptions						E2	Ongoing Sales Invoices	Ongoing Sales Return Orders	Ongoing Sales Credit Memos		
	Туре	No.	Description	Location Code	Quantity	Qty. to Assemble to Order	Reserved Quantity	Unit of Measure Code	Unit P	0	0	0		
	Item	1088	DENATURED ETHANOL 70% 3 LI		4		-	PCS		Posted Sales	Posted Sales	Posted Sales Return		
	→ Item	128095	AG Alkylate Petrol 2T 5L (SE/NO/	BLUE	6		-	PCS	*		Invoices	Receipts		
										Posted Sales Credit Memos				





In the screenshot below you can see the created consignment. It will be one pallet for both items. In the fact box to the right, you see that the consignments consist of two item lines.

365 Business Central								a í		
^{Consignment} BC17W10317	00006 · Marsholm Ka	rmstol	(2) +	۱ ۱				√ Saved	ದ ಸ್	
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General				SF	how more	① Details	Attachm	ients (0)		
Warehouse Shipment No		\sim	Delivery City	Halmstad		Totals				l
Warehouse Pick No.		\sim	Delivery Contact Person	Richard Holmkvist					- 1	l
Inventory Pick No.		\sim	Shipment Date	5/23/2021	ta la	0	0	0	- 1	l
Source Document Type	Sales Order	~	Location Code	BLUE	~	Packages	Weight	Volume	. 1	l
Source Document No.	1007	\sim	Shipping Agent Code	SCHENKER	~	0	0	2		l
Source Type	Customer	~	Shipping Agent Service Code	SYSTEM	~	Load Meters	Pallet Places	Item Lines		l
Source No.	46251425	~	Shipment Method Code	DDP	\sim	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		item Lines		l
Delivery Name	Marsholm Karmstol		Payer	Sender		0	0	0		l
Delivery Address	Tylö Fackhandel		Paying Customer No.	9019506		Services	Linked Source Documents	Consolidated Consignments		l
Delivery Post Code	SE-302 50	~				0 Error Messages				
Packages Lines	Manage				62				_	l
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→ 1	PALLET Pallet		GOODS 61	.634 0.045	=	Tracking Status Booking Statu Tracking No. Consolidated				l



When clicking *Prepare & Print* the additional service *Dangerous Goods* will automatically be inserted before sent to Logtrade. As you see in the screenshot below there is now added 1 additional service. You can also see in the following screenshots that it is the service *Dangerous Goods* and that it is not any *Sea Transport* selected.

Consignment		+ 🛍				√ Saved □	۲ ۲
BC17W1031700006 · Marsholm Kar	rmstol						
🐔 Select Packages 🛛 🔋 Create Package 🛛 🖶 Print 🛛 🕌 Release	🔄 Add Service 🛛 🚳 Reopen 🔋 Book	Actions Related Fe	ewer options				0
General			Show more	① Details	Attachm	ents (1)	
Warehouse Shipment No.	Delivery City	Halmstad		Totals			
Warehouse Pick No.	Delivery Contact Person	Richard Holmkvist					
Inventory Pick No.	Shipment Date	5/23/2021		1	61.63	0.05	
Source Document Type Sales Order	Location Code	BLUE		Packages	Weight	Volume	
Source Document No. 1007	Shipping Agent Code	SCHENKER		0	0	2	
Source Type Customer	Shipping Agent Service Code	SYSTEM					
Source No. 46251425	Shipment Method Code	DDP		Load Meters	Pallet Places	Item Lines	
Delivery Name Marsholm Karmstol	Payer	Sender		1	0	0	
Delivery Address Tylö Fackhandel	Paying Customer No.	9019506		Services	Linked Source Documents	Consolidated Consignments	
Delivery Post Code SE-302 50				0			
				Error Messages			
Packages Lines Manage			53	Error messages			_
Package Type No. of Packages Code Package Descriptio	n Goods Type Code	Weight Volume	Load Meters	Statistics			
→ <u>1</u> : PALLET Pallet	GOODS	61.634 0.045		Tracking			
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	Description	Properti	es Missing Property Values
	→ Dangerous goods	:	1
			2500 10 40 40
w	- Consignment Service Property Valu	es	2 ×



false

Sea transport

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By clicking on *Manage / Dangerous Goods* you will see exactly which dangerous goods classifications, weights etc. that has been inserted to the consignment for that goods line. In this example we only had one goods line, so all the dangerous goods are related to that line.

Packages Lir	nes Manag	e			ß
📲 New Line	🖮 Delete Line	Packages	🖶 Print Labels	🐔 Dangerous Goods	-12
				44	الح

BC17	7W1031700006	·Mars	holm Karmstol										✓ Saved		×
Cons	signment Line	Dange	rous Goods		😨 Edit List	🗊 Delete	Create Lines from Items	Open in Exce	1					8	=
	No. of Package	s	Package Type Code	Package Description	Dange Goods		Dangerous Goods Description	Quantity Limitation	Gross Weight	Volume	Net Weight	Source Document No.	Source Document Line No.	item f	Io.
\rightarrow		4 :	BOX	Box	16		ALKOHOLER, N.O.S. (ETANOL ;	Limited	34.56	0.036	31.92	1007	10000	1088	
		6	BOX	Box	8		BENSIN		6,804	0.009	6,210	1007	20000	1280	95

3.1 PRINTED DOCUMENT

3.1.1 REGULAR DANGEROUS GOODS DECLARATION

This shows the document that is printed when Sea Transport is false, that means when the transportation will not be done on water.

Gäller	Fraktsedels nr/Reg	arding	Shipme	nt no:			oods declaration ion farligt goods				
65779	31782	-	•								
Blue Wa	ndare/Consignor: arehouse argatan 2						Mottagare/Consignee: Marsholm Karmstol Tylö Fackhandel				
Sweden 1007 ^{IN-nummer}	15 MALMÖ Godsets oficiella transportbenämning Official name of the goods	Klass Class	Förpacknings grupp Pack.grp	- Tunnelrestriktioner Tunnel restrictions	Antal ko Pieces	ili Kollislag Package type	SE 302 50 Halmstad Sweden	Nettovikt, kg E Net weight, kg T		Nettovolym, I Net volume, I	
UN1987	ALKOHOLER, N.O.S. (1	ETANOL	; PROPAN	1-2-OL)		7					
	1	3	111	(D/E)	4	Box		31.92	34.56	0.036	Miljöfarligt
JN1203	BENSIN			-							
	1	3	lu l	(D/E)	6	Box		6210.00	6804.00	0.000	Miljöfarligt





3.1.2 MULTIMODAL DANGEROUS GOODS DECLARATION

This shows the document that is printed when Sea Transport is true, that means when the transportation will be done on water. Sometimes you could want this document ever if the transportation will not be done on water. Then you can just change the parameter Sea Transport from false to true.

1 ShipperConsignor/Sender Blue Warehouse Propellergaton 2		2 Transport document number 6577931782						
Propellergatan 2	2	3 Page c	1		pers refe 07	ence		
SE 21115 MAL Sweden	MÖ					ders reference		
Consignee Marsholm Karm	stol	7 Carrier (To be comp	pleted by the o	arrier)				
Tylö Fackhandel SE 302 50 Halmstad Sweden		SHIPPER'S DECLARATION I hereby declare that the contents of this consignment are fully and accurately described below by the proper Shipping Name, and are classified, packaged, marked and labelled/placarded and are in all respects in proper condition for transport according to the applicable international and national givenment regulations.						
shipment is within the limitations prescribed for. (Delete the non-applicable) SSENGER AND CARGO AIRCRAFT ONLY		9 Additional handing information Transport enligt 1,1.4.2.1 Carriage in accordance with 1.1.4.2.1 (ADR)						
Vessel/Tight No. and date	11 Portiplace of loading	Carriage	n accor	dance with	11.1	4.2.1 (A	UR)	
2 Portiplace of discharge	13 Destination							
4 Shipping marks	* Number and kind of packages; description of	of goods	-	Gross mass ()	la)	Net mass (kg)	Cube (m ²)
	((D/E)) 4 Box UN 1203 BENSIN			34.56 k	g	31.92 k	g 3.59	9999999
	4 Box UN 1203 BENSIN 3 II (< 23°C) MARINE POLLUTANT ((D/E))							
Container identification No.	4 Box UN 1203 BENSIN 3 II (< 23°C) MARINE POLLUTANT ((D/E)) 6 Box		520 Å 1400 1	6804.00 k		210.00 k	g 8.99	9999999
5 Dontainer identification No./	4 Box UN 1203 BENSIN 3 II (< 23°C) MARINE POLLUTANT ((D/E))	17 Container verhicle	size & type 1	6804.00 k			g 8.99	
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