

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 Trar	sport Definitions	
Go to Pa	ages 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.

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\leftarrow	Sea Transport Definitions Work D	ate: 1/27/2022					,	✓Saved 🗍 🖬	7 ⁴
		List 📋 Delete 🛛 🚺 Op	en in Excel					Ŷ	
	Shipping Agent Code †	Shipping Agent Service Code ↑	Pickup Country Code 1	From Pickup Post Code 1	To Pickup Post Code †	Delivery Country Code †	From Delivery Post Code	To Delivery Post Code	t
	→	:	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.





Tell me what you want to do	2 ×
Dangerous Goods	
Go to Pages and Tasks	
> Dangerous Goods	Administration

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	\leftarrow	Dangerous Goods							✓ Saved		l.	
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		Code 1	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/E)	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	Oper	in Excel				7 ≣		
			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	65 Business Central												0 ©	?
~	Sales Order				(+	1					√ Saved	r م	r.
	1007 · Mars	sholm	Karmstol											
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	General								Show more	() 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				Ő	0	2		
	Posting Date		5/23/2021		Status	c)pen				U	2		
	Order Date		5/23/2021	11						Quotes	Blanket Orders	Orders		
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	Lines Manage	e More op	ptions							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	BLUE	4		_	PCS		Posted Sales	Posted Sales	Posted Sales Return		
	→ Item	128095	AG Alkylate Petrol 2T 5L (SE/NO/	BLUE	6		-	PCS	*	O	mvoices	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.

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	Consignment BC17W103170000	6 · Marsholi	m Karmstol	() +	面				✓ Saved	C',	ć			
	🐼 Select Packages 🛛 🗃 Create P	Package 🛛 🖶 Prepare	& Print 🛛 🔠 Add Service	💣 Reopen 🔋 Book 🕴 Act	tions Related Fewer options					0)			
	General					Show more	① Details	Attachm	ients (0)					
	Warehouse Shipment No.		~	Delivery City	Halmstad		Totals				1			
	Warehouse Pick No.		~	Delivery Contact Person	Richard Holmkvist						L			
	Inventory Pick No.		~	Shipment Date	5/23/2021		0	0	0		L			
	Source Document Type	Sales Order	~	Location Code	BLUE	\sim	Packages	Weight	Volume		L			
	Source Document No.	1007	~	Shipping Agent Code	SCHENKER	\sim	0	0	2		L			
	Source Type	Customer	~	Shipping Agent Service Code	SYSTEM	\sim					L			
	Source No.	46251425	~	Shipment Method Code	DDP	\sim	Load Meters	Pallet Places	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			
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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	تر کتا
BC17W103170000	6 · Mar	sholm Karmst	ol							
🚯 Select Packages 🛛 🕹 Create Pa	ackage 😽 🛱	Print 🕌 Release 👔	Add Service 💣 Reopen 🔋 Book	Actions R	elated Fewer opt	tions				0
General						Show more	① Details	Attachm	ents (1)	
Warehouse Shipment No.			Delivery City	Halmstad			Totals			
Warehouse Pick No.			Delivery Contact Person	Richard Holn	nkvist					- 1
Inventory Pick No.			Shipment Date	5/23/2021			1	61.63	0.05	- 1
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 Ka	rmstol	Payer	Sender			1	0	0	
Delivery Address	Tylö Fackhan	del	Paying Customer No.	9019506			Services	Linked Source Documents	Consolidated Consignments	
Delivery Post Code	SE-302 50						0			- 1
							P			- 1
Packages Lines Manag	e					EZ	Endrimessages			
Pi No. of Packages C	ackage Type ode	Package Description	Goods Type Code	Weight	Volume I	Load Meters	Statistics			
→ <u>1</u> : P	ALLET	Pallet	GOODS	61.634	0.045		Tracking			- 1
							Status		Pre	pared

/	Search 月	Edit List	📋 Delete	🔠 Add Service	Properties	Open in Excel	
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1	→ Dangero	us goods			:	1	_
w -	Consignm	ent Serv	vice Prope	erty Values			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	-tz-
			-		

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		No. of Packages	Package Type Code	Package Description	Dangerous Goods Code	Dangerous Goods Description	Quantity Limitation	Gross Weight	Volume	Net Weight	Source Document No.	Source Document Line No.	item f	40.
	\rightarrow	4	BOX	Box	16	ALKOHOLER, N.O.S. (ETANOI	; 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:	Dar Goo	igerous go Isdeklarati	oods declaration ion farligt goods				
65779	31782	-	•								
Avsän Blue Wa Propelle	ndare/Consignor: arehouse argatan 2						Mottagare/Consignee: Marsholm Karmstol Tylö Fackhandel				
SE 211 Sweden 1007 IN-nummer 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	truttovikt, kg 'otal weight, kg	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	0	lu l	(D/E)	6	Rev		6210.00	6904 00	0.000	Miliöforligt





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.

	6577931782				
Propellergatan 2		1 pa	ges 4 Shippers	reference	
SE 21115 MALMÖ Sweden			5 Freight fo	rwarders reference	
	7 Carrier (To be comp	leted by the carri	ier)		
Fylö 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 givernment regulations.			
escribed for: (Dekite the non-applicable) CARGO AIRCRAFT ONLY	9 Additional handling i Transport	enligt 1.	1.4.2.1	1404 (400)	
11 Portiplace of loading	Carriage	n accord	ance with 1	.1.4.2.1 (ADR)	
13 Destination					
mber and kind of packages; description of	gooda		Gross mass (kg)	Net mass (kg)	Cube (m ²
23°C) ARINE POLLUTANT D/E))				2010 001	
3OX 16 Seal number(s)	17 Container vehicle s	ize & type 18 T	804.00 kg	6210.00 kg 8.9	duding tare) (kg)
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