



EMP

Port Order XML – Quay orders (A08, A09, A15, A18)

Implementation manual

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Change requests

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Used tools

Number	Used tools
W1	This document was created with MS Word 2021 .

Liability

1. Despite careful development and verification of this document no liability can be derived from the content of this manual towards DAKOSY AG!

Table of contents

1	Introduction.....	4
2	Message Structure	5
3	Guideline.....	10

1 Introduction

This document describes the required and optional fields for the quay orders in EMP.

A08 – Quay order for inbound delivery
A09 – Quay order for outbound delivery
A15 - Application for quay services
A18 – Certificate of obligation

The quay orders are used for the communication about shipping information between forwarders, quay operators and shipping agents.

A XSD documentation is also available.

2 Message Structure

Ocurrence	Element/Attribute
	PortOrder
1 .. 1	xs:sequence
1 .. 1	Transaction
1 .. 1	xs:sequence
1 .. 1	IOPartner
1 .. 1	IOReference
1 .. 1	IODateTime
1 .. 1	MessageVersion
0 .. 1	TestIndicator
1 .. 1	Message
1 .. 1	xs:sequence
1 .. 1	Header
1 .. 1	xs:sequence
1 .. 1	Type
0 .. 1	RequestDateTime
1 .. 1	Locations
1 .. 1	xs:sequence
1 .. 2	Location
1 .. 1	xs:sequence
1 .. 1	LocationType
0 .. 1	Code
0 .. 1	Name
1 .. 1	References
1 .. 1	xs:sequence
0 .. 1	BookingNumber
1 .. 1	ForwarderReference
0 .. 1	BillOfLadingNumber
1 .. 1	Participants
1 .. 1	xs:sequence
1 .. 999	Participant
1 .. 1	xs:sequence
1 .. 1	ParticipantType
0 .. 1	DakosyCode
0 .. 1	Identification
1 .. 1	xs:sequence
1 .. 1	EORINumber
1 .. 1	BranchNumber
0 .. 1	Name
0 .. 1	QuayAccountNumber
0 .. 1	CustomerReference
0 .. 1	Contact
1 .. 1	xs:sequence
1 .. 1	Name
1 .. 1	EMail
0 .. 1	FAX
1 .. 1	Phone
1 .. 1	TransportDetails
1 .. 1	xs:sequence
0 .. 1	VesselIdentification
1 .. 1	xs:sequence
0 .. 1	VesselName
0 .. 1	CallSign
0 .. 1	IMONumber
1 .. 1	Schedule

Ocurrence	Element/Attribute
1 .. 1	xs:sequence
0 .. 1	EstimatedShippingDate
0 .. 1	DakosyVoyageNumber
0 .. 1	CarrierSCACCode
0 .. 1	VoyageNumber
1 .. 1	QuayOrderDetails
1 .. 1	xs:sequence
0 .. 1	Orders
1 .. 1	xs:sequence
1 .. 5	TypeOfService
1 .. 1	Delivery
1 .. 1	xs:sequence
0 .. 1	VehicleIdentification
1 .. 1	MeansOfTransport
0 .. 1	DeliveryTo
0 .. 1	AdditionalRemarks
0 .. 1	AdditionalRequest
0 .. 1	WarehouseNumber
0 .. 1	SpecialAgreement
0 .. 1	GoodsInTransitBySealIndicator
0 .. 1	OutboardLoadingIndicator
0 .. 1	ATLASSelfDeclaredIndicator
0 .. 1	DangerousGoodsIssuer
1 .. 1	GoodsItems
1 .. 1	xs:sequence
1 .. 999	GoodsItem
1 .. 1	xs:sequence
1 .. 1	GoodsItemId
1 .. 1	DetailInformation
1 .. 1	xs:sequence
1 .. 1	NumberOfPackages
1 .. 1	PackingCode
1 .. 1	GrossWeight
	unit
0 .. 1	MarksAndNumbers
0 .. 1	GoodsDescription
0 .. 1	MeansOfTransportID
0 .. 1	Remarks
0 .. 1	ContainerReferences
1 .. 1	xs:sequence
1 .. 999	ContainerReference
1 .. 1	xs:sequence
1 .. 1	ContainerNumber
0 .. 1	VehicleInformation
1 .. 1	xs:sequence
0 .. 1	ChassisNumber
0 .. 1	EquipmentIndicator
0 .. 1	AdditionalCargoIndicator
0 .. 1	DangerousGoodsInformations
1 .. 1	xs:sequence
1 .. 99	DangerousGoodsInformation
1 .. 1	xs:sequence
0 .. 1	IMDGAmdendment
1 .. 1	IMDGClass
1 .. 1	UNNumber

Ocurrence	Element/Attribute
0 .. 1	EmergencyProcedure
1 .. 1	xs:sequence
0 .. 1	FireSchedule
0 .. 1	SpillageSchedule
0 .. 1	FlashPoint
	unit
0 .. 1	Label
1 .. 1	xs:sequence
0 .. 1	Code
0 .. 1	FirstAdditionalLabel
0 .. 1	SecondAdditionalLabel
0 .. 1	MarinePollutantIndicator
1 .. 1	LimitedQuantityIndicator
0 .. 1	ExceptedQuantityIndicator
0 .. 1	PackingGroup
0 .. 1	Properties
0 .. 1	WaterHazardClass
1 .. 1	ProperShippingName
0 .. 1	TechnicalName
0 .. 1	GGVSAAndADRInformation
1 .. 1	xs:sequence
0 .. 1	Class
0 .. 1	Figure
0 .. 1	ExplosiveInformation
1 .. 1	xs:sequence
0 .. 1	Stowage
0 .. 1	CompatibilityGroup
0 .. 1	PowderWeight
	unit
0 .. 1	RadioactivityInformation
1 .. 1	xs:sequence
1 .. 1	Activity
	unit
1 .. 1	Category
1 .. 1	TransportCode
1 .. 1	PackingType
0 .. 1	Dimensions
1 .. 1	xs:sequence
1 .. 999	Dimension
1 .. 1	xs:sequence
0 .. 1	Count
0 .. 1	Size
1 .. 1	xs:sequence
0 .. 1	Length
	unit
0 .. 1	Width
	unit
0 .. 1	Height
	unit
0 .. 1	Volume
1 .. 1	xs:sequence
0 .. 1	Single
	unit
0 .. 1	Total
	unit
0 .. 1	Packages

Ocurrence	Element/Attribute
1 .. 1	xs:sequence
1 .. 999	Package
1 .. 1	xs:sequence
1 .. 1	Packageld
1 .. 1	DetailInformation
1 .. 1	xs:sequence
1 .. 1	NumberOfPackages
1 .. 1	PackingCode
1 .. 1	GrossWeight
	<i>unit</i>
0 .. 1	MarksAndNumbers
0 .. 1	GoodsDescription
0 .. 1	MeansOfTransportID
0 .. 1	Remarks
0 .. 1	VehicleInformation
1 .. 1	xs:sequence
0 .. 1	ChassisNumber
0 .. 1	EquipmentIndicator
0 .. 1	AdditionalCargoIndicator
0 .. 1	DangerousGoodsInformations
1 .. 1	xs:sequence
1 .. 99	DangerousGoodsInformation
1 .. 1	xs:sequence
0 .. 1	IMDGAmendment
1 .. 1	IMDGClass
1 .. 1	UNNumber
0 .. 1	EmergencyProcedure
1 .. 1	xs:sequence
0 .. 1	FireSchedule
0 .. 1	SpillageSchedule
0 .. 1	FlashPoint
	<i>unit</i>
0 .. 1	Label
1 .. 1	xs:sequence
0 .. 1	Code
0 .. 1	FirstAdditionalLabel
0 .. 1	SecondAdditionalLabel
0 .. 1	MarinePollutantIndicator
1 .. 1	LimitedQuantityIndicator
0 .. 1	ExceptedQuantityIndicator
0 .. 1	PackingGroup
0 .. 1	Properties
0 .. 1	WaterHazardClass
1 .. 1	ProperShippingName
0 .. 1	TechnicalName
0 .. 1	GGVSAAndADRInformation
1 .. 1	xs:sequence
0 .. 1	Class
0 .. 1	Figure
0 .. 1	ExplosiveInformation
1 .. 1	xs:sequence
0 .. 1	Stowage
0 .. 1	CompatibilityGroup
0 .. 1	PowderWeight
	<i>unit</i>

Ocurrence	Element/Attribute
0 .. 1	RadioactivityInformation
1 .. 1	xs:sequence
1 .. 1	Activity
	unit
1 .. 1	Category
1 .. 1	TransportCode
1 .. 1	PackingType
0 .. 1	Dimensions
1 .. 1	xs:sequence
1 .. 999	Dimension
1 .. 1	xs:sequence
0 .. 1	Count
0 .. 1	Size
1 .. 1	xs:sequence
0 .. 1	Length
	unit
0 .. 1	Width
	unit
0 .. 1	Height
	unit
0 .. 1	Volume
1 .. 1	xs:sequence
0 .. 1	Single
	unit
0 .. 1	Total
	unit
0 .. 1	Containers
1 .. 1	xs:sequence
1 .. 999	Container
1 .. 1	xs:sequence
1 .. 1	ContainerNumber
0 .. 1	NonIsoContainerIndicator
0 .. 1	Seal
1 .. 1	SizeType
0 .. 1	TemperatureRange
1 .. 1	xs:sequence
0 .. 1	Min
	unit
0 .. 1	Max
	unit

3 Guideline

Element/Attribute	Annotation
PortOrder	Type PortOrderElementType
xs:sequence	Occurence 1 .. 1
Transaction	Occurence 1 .. 1 Type TransactionType
xs:sequence	Occurence 1 .. 1
IOPartner	Occurence 1 .. 1 Type an..4 Length .. 4 Description DAKOSY participant code
IOReference	Occurence 1 .. 1 Type an..35 Length .. 35 Description Unique and unambiguous transaction identification reference
IODateTime	Occurence 1 .. 1 Type xs:dateTime Description Date and time of message creation - ISO 8601 Coordinated Universal Time (UTC) or local time with offset to UTC.
MessageVersion	Occurence 1 .. 1 Type an..12 Length .. 12 Description Used message version
TestIndicator	Occurence 0 .. 1 Type xs:boolean Description Test indicator - Indicates whether or not the message is a test message. If the element ist not specified or specified as "true", it is about a production message.
Message	Occurence 1 .. 1 Type MessageType
xs:sequence	Occurence 1 .. 1
Header	Occurence 1 .. 1 Type HeaderType
xs:sequence	Occurence 1 .. 1
Type	Occurence 1 .. 1 Type portOrderTypeCode Description Port Order Type
Applicable Codes	
A08	Quay order for inbound delivery
A09	Quay order for outbound delivery
A15	Application for quay services
A18	Certificate of obligation
RequestDateTime	Occurence 0 .. 1 Type xs:dateTime Description Date and time of request by the forwarder. ISO 8601 Coordinated Universal Time (UTC) or local time with offset to UTC. Deprecated since Version 1.3.0, will not be processed.
Locations	Occurence 1 .. 1 Type LocationsType Description This segment summarizes information concerning the shipment route.
xs:sequence	Occurence 1 .. 1
Location	Occurence 1 .. 2 Type LocationType Description A location within the shipment route.
xs:sequence	Occurence 1 .. 1
LocationType	Occurence 1 .. 1 Type locationTypeCode Description Describes the location type
Applicable Codes	
FD	Final destination
POD	Port of discharge

Element/Attribute	Annotation
Code	Occurence 0 .. 1 Type an5 Description UN-Locode
Name	Occurence 0 .. 1 Type an..35 Length .. 35 Description Name of location
References	Occurence 1 .. 1 Type ReferencesType
xs:sequence	Occurence 1 .. 1
BookingNumber	Occurence 0 .. 1 Type an..20 Length .. 20 Description Booking number
ForwarderReference	Occurence 1 .. 1 Type an..16 Length .. 16 Description Reference number of forwarder
BillOfLadingNumber	Occurence 0 .. 1 Type an..10 Length .. 10 Description BL number
Participants	Occurence 1 .. 1 Type ParticipantsType Description This element summarizes information concerning the different process participants.
xs:sequence	Occurence 1 .. 1
Participant	Occurence 1 .. 999 Type ParticipantType Description This segment summarizes information concerning one process participant at a time.
xs:sequence	Occurence 1 .. 1
ParticipantType	Occurence 1 .. 1 Type participantTypeCode Description Participant type
Applicable Codes	
	AGENT Shipping agent
	ISSUER Issuer
	PARTY_PAYIN Party committing to payment
	G
	WAREHOUSE Warehouse
DakosyCode	Occurence 0 .. 1 Type an..4 Length .. 4 Description DAKOSY participant code
Identification	Occurence 0 .. 1 Type IdentificationType Description Identification of participant via EORI and branch number
xs:sequence	Occurence 1 .. 1
EORINumber	Occurence 1 .. 1 Type eoriNumberType Length 4 .. 17 Pattern [A-Z]{2}[0-9A-Z]{2,15} Description EORI number
BranchNumber	Occurence 1 .. 1 Type n4 FractionDigits 0 TotalDigits 4 Pattern \d{4} Description Branch number, set to 0000 if not registered.
Name	Occurence 0 .. 1 Type an..40 Length .. 40

Element/Attribute	Annotation
QuayAccountNumber	Description Name of participant
	Occurence 0 .. 1
	Type an..6
CustomerReference	Description Quai account number of participant
	Occurence 0 .. 1
	Type an..16
Contact	Description Individual position number of participant
	Occurence 0 .. 1
	Type ContactType
xs:sequence	Description Information of contact person (name, email, fax number and phone number)
	Occurence 1 .. 1
	Type ContactType
Name	Description Name of contact person
	Occurence 1 .. 1
	Type an..40
EMail	Description Email address of contact person
	Occurence 1 .. 1
	Type an..100
FAX	Description Fax number of contact person
	Occurence 0 .. 1
	Type an..40
Phone	Description Phone number of contact person
	Occurence 1 .. 1
	Type an..40
TransportDetails	Description This segment provides information concerning the shipment.
	Occurence 1 .. 1
	Type TransportDetailsType
xs:sequence	Description Information concerning the vessel identification (name, IMO number, call sign)
	Occurence 1 .. 1
	Type VesselIdentificationType
VesselIdentification	Description Information concerning the vessel identification (name, IMO number, call sign)
	Occurence 0 .. 1
	Type VesselIdentificationType
xs:sequence	Description Vessel name
	Occurence 1 .. 1
	Type an..50
VesselName	Description Vessel name
	Occurence 0 .. 1
	Type an..50
CallSign	Description Call sign of the vessel
	Occurence 0 .. 1
	Type an..7
IMONumber	Description IMO number of the vessel
	Occurence 0 .. 1
	Type an..7
Schedule	Description Information concerning the planned vessel voyage
	Occurence 1 .. 1
	Type VesselScheduleType
xs:sequence	Description Planned date of shipment
	Occurence 1 .. 1
	Type xs:date
EstimatedShippingDate	Description Planned date of shipment
	Occurence 0 .. 1
	Type xs:date
DakosyVoyageNumber	Description DAKOSY voyage number
	Occurence 0 .. 1
	Type dakosyVoyageNumberType
	Pattern [A-Z]{3}[0-9]{4}

Element/Attribute	Annotation																																						
CarrierSCACCode	<p>Occurence 0 .. 1 Type an..4 Length .. 4 Description SCAC code of shipowner</p>																																						
VoyageNumber	<p>Occurence 0 .. 1 Type an..8 Length .. 8 Description Voyage number of shipowner</p>																																						
QuayOrderDetails	<p>Occurence 1 .. 1 Type QuayOrderDetailsType</p>																																						
xs:sequence	<p>Occurence 1 .. 1</p>																																						
Orders	<p>Occurence 0 .. 1 Type OrdersType Description This segment is used to collect all additional types of services and orders. The specification of service types in this segment is not required at the moment. The textual application in the note field applies.</p>																																						
xs:sequence	<p>Occurence 1 .. 1</p>																																						
TypeOfService	<p>Occurence 1 .. 5 Type typeOfServiceCode Description Service/order type</p> <p>Applicable Codes</p> <table> <tr><td>480</td><td>Labelling</td></tr> <tr><td>490</td><td>Re-labelling</td></tr> <tr><td>500</td><td>Sorting</td></tr> <tr><td>510</td><td>Putting aside and releasing of goods for arbitrage purposes. Upon release third copy is returned.</td></tr> <tr><td>520</td><td>Maintenance and repair</td></tr> <tr><td>530</td><td>Counting</td></tr> <tr><td>540</td><td>Measuring (only for LCL)</td></tr> <tr><td>550</td><td>Sampling</td></tr> <tr><td>560</td><td>Surveillance</td></tr> <tr><td>570</td><td>Assessing content/condition</td></tr> <tr><td>580</td><td>Pack/unpack containers</td></tr> <tr><td>590</td><td>Weighing</td></tr> <tr><td>591</td><td>Weigh individually</td></tr> <tr><td>592</td><td>Weigh in trays</td></tr> <tr><td>593</td><td>Weigh in batches</td></tr> <tr><td>594</td><td>Weigh with mechanical handling equipment</td></tr> <tr><td>595</td><td>Weigh without mechanical handling equipment</td></tr> <tr><td>596</td><td>Classification (determine tara)</td></tr> <tr><td>999</td><td>Other</td></tr> </table>	480	Labelling	490	Re-labelling	500	Sorting	510	Putting aside and releasing of goods for arbitrage purposes. Upon release third copy is returned.	520	Maintenance and repair	530	Counting	540	Measuring (only for LCL)	550	Sampling	560	Surveillance	570	Assessing content/condition	580	Pack/unpack containers	590	Weighing	591	Weigh individually	592	Weigh in trays	593	Weigh in batches	594	Weigh with mechanical handling equipment	595	Weigh without mechanical handling equipment	596	Classification (determine tara)	999	Other
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593	Weigh in batches																																						
594	Weigh with mechanical handling equipment																																						
595	Weigh without mechanical handling equipment																																						
596	Classification (determine tara)																																						
999	Other																																						
Delivery	<p>Occurence 1 .. 1 Type DeliveryType Description This segment provides information concerning the delivery.</p>																																						
xs:sequence	<p>Occurence 1 .. 1</p>																																						
VehicleIdentification	<p>Occurence 0 .. 1 Type an..13 Length .. 13 Description Wagon/truck number plate</p>																																						
MeansOfTransport	<p>Occurence 1 .. 1 Type meansOfTransportCode Description Code of means of transport</p> <p>Applicable Codes</p> <table> <tr><td>AB</td><td>Outboard</td></tr> <tr><td>AN</td><td>Other</td></tr> <tr><td>BS</td><td>Inland vessel</td></tr> <tr><td>FE</td><td>Feeder</td></tr> <tr><td>LK</td><td>Truck</td></tr> <tr><td>SC</td><td>Barge</td></tr> <tr><td>SS</td><td>Seagoing/Ocean vessel</td></tr> </table>	AB	Outboard	AN	Other	BS	Inland vessel	FE	Feeder	LK	Truck	SC	Barge	SS	Seagoing/Ocean vessel																								
AB	Outboard																																						
AN	Other																																						
BS	Inland vessel																																						
FE	Feeder																																						
LK	Truck																																						
SC	Barge																																						
SS	Seagoing/Ocean vessel																																						

Element/Attribute	Annotation
	Applicable Codes
	TL Trailer
	UN Unknown
	WG Waggon
DeliveryTo	Occurence 0 .. 1 Type an..30 Length .. 30 Description At the disposal/delivery of the company
AdditionalRemarks	Occurence 0 .. 1 Type an..4lines Pattern (:?[^\r?\n]{1,72}(\r?\n?)){0,3}[^\r?\n]{1,72}[\r?\n]? Description Additional information - remarks etc. Specification of 1-4 columns with each max. 72 characters
AdditionalRequest	Occurence 0 .. 1 Type an..35 Length .. 35 Description Additional requests
WarehouseNumber	Occurence 0 .. 1 Type an..11 Length .. 11 Description Warehouse number
SpecialAgreement	Occurence 0 .. 1 Type an..8 Length .. 8 Description Special agreements (e.g. special rate, offers)
GoodsInTransitBySeaIndicator	Occurence 0 .. 1 Type xs:boolean Description Is it about marine transit goods? (true = yes, false = no)
OutboardLoadingIndicator	Occurence 0 .. 1 Type xs:boolean Description Is it about outboard loading? (true = yes, false = no)
ATLASSelfDeclaredIndicator	Occurence 0 .. 1 Type xs:boolean Description Is it about a ATLAS self-declaration? (true = yes, false = no) Deprecated since version 1.3.0, will not be processed.
DangerousGoodsIssuer	Occurence 0 .. 1 Type an..72 Length .. 72 Description Issuer (individual) in charge for the DG specifications
GoodsItems	Occurence 1 .. 1 Type GoodsItemsType Description All packages of this shipment
xs:sequence	Occurence 1 .. 1
GoodsItem	Occurence 1 .. 999 Type GoodsItemType Description A package (goods item) line
xs:sequence	Occurence 1 .. 1
GoodsItemId	Occurence 1 .. 1 Type an..35 Length .. 35 Description Unique and unambiguous goods item identification number within a message
DetailInformation	Occurence 1 .. 1 Type GoodsDetailInformationType Description Different detail information regarding the package (goods item)
xs:sequence	Occurence 1 .. 1
NumberOfPackages	Occurence 1 .. 1 Type n..6 FractionDigits 0 TotalDigits 6 Inclusive 1 Pattern \d{1,6}

Element/Attribute	Annotation
PackingCode	Description Number of packages
	Occurence 1 .. 1
	Type an2
GrossWeight	Description Packing code. Code list under: https://www.dakosy.de/fileadmin/Redakteur/Support/Dokumentation/Entwicklerdokumentation/EDI/Allgemein/Verpackungsartenschluessel.pdf
	Occurence 1 .. 1
	Type Weight7.3Type
	FractionDigits 3
	TotalDigits 10
	Pattern \d{1,7}(\.\d{1,3})?
unit	Description Gross weight (excl. container tara), gross mass. The gross mass is understood to be the mass of the goods with all enclosures except the transport material and in particular containers.
	Type weightUnitCode
MarksAndNumbers	Description Unit of measurement of the weight
	Applicable Codes
	KGM Kilogramm
GoodsDescription	Occurence 0 .. 1
	Type an..1024
	Length .. 1024
	Description Marks and numbers
MeansOfTransportID	Occurence 0 .. 1
	Type an..13
	Length .. 13
	Description Means of transport indicator
Remarks	Occurence 0 .. 1
	Type an..1024
	Length .. 1024
	Remark G27
ContainerReferences	Description Remarks
	Occurence 0 .. 1
xs:sequence	Type ContainerReferencesType
	Occurence 1 .. 1
ContainerReference	Occurence 1 .. 999
	Type ContainerReferenceType
xs:sequence	Occurence 1 .. 1
	Occurence 1 .. 1
ContainerNumber	Type an..12
	Length .. 12
	Description Container number
	Occurence 1 .. 1
VehicleInformation	Occurence 0 .. 1
	Type VehicleInformationType
	Description Information to a vehicle
xs:sequence	Occurence 1 .. 1
	Occurence 0 .. 1
ChassisNumber	Type chassisNumberType
	Length .. 17
	Pattern [^oO]{1,17}
	Description Chassis number of a vehicle - Note: The character "I" and "O" are not permitted. Instead, always send the digit "1" (one) and "0" (zero).
	Occurence 0 .. 1
EquipmentIndicator	Type xs:boolean
	Description Indicates whether it is vehicle loading equipment. true = yes, ChassisNumber must be filled, false or not available = no.
	Occurence 0 .. 1

Element/Attribute	Annotation
└─ AdditionalCargoIndicator	<p>Occurence 0 .. 1 Type xs:boolean Description Indicates whether it is vehicle loading additional cargo. true = yes, ChassisNumber must be empty, false or not available = no.</p>
└─ DangerousGoodsInformations	<p>Occurence 0 .. 1 Type DangerousGoodsInformationsType Description Dangerous goods information - Note: For WKS, it is possible to specify multiple UN numbers by including multiple DangerousGoodsInformation elements. In all other cases, only the first element of the list will be evaluated.</p>
└─ xs:sequence	Occurence 1 .. 1
└─ DangerousGoodsInformation	<p>Occurence 1 .. 99 Type DangerousGoodsInformationType Description Dangerous goods information</p>
└─ xs:sequence	Occurence 1 .. 1
└─ IMDGAmendment	<p>Occurence 0 .. 1 Type an..10 Length .. 10 Description Amendment of IMDG code where the dangerous goods information refer to</p>
└─ IMDGClass	<p>Occurence 1 .. 1 Type an..4 Length .. 4 Description IMDG class - check against the IMDG code as well as compatibility assessment with UN number</p>
└─ UNNumber	<p>Occurence 1 .. 1 Type an..4 Length .. 4 Description UN number - check against the IMDG code as well as compatibility assessment with IMDG class. NONE permitted.</p>
└─ EmergencyProcedure	<p>Occurence 0 .. 1 Type EmergencyProcedureType</p>
└─ xs:sequence	Occurence 1 .. 1
└─ FireSchedule	<p>Occurence 0 .. 1 Type fireScheduleType Pattern F-[A-J] Description Accident leaflets for fire (emergency procedure)</p>
└─ SpillageSchedule	<p>Occurence 0 .. 1 Type spillageScheduleType Pattern S-[A-Z] Description Accident leaflets for leakage (emergency procedure)</p>
└─ FlashPoint	<p>Occurence 0 .. 1 Type Temperature1000Type FractionDigits 0 Inclusive -999 .. 999 Description Flashpoint - Mandatory in case of class 3 or if the 1. digit of a lable = 3</p>
└─ <i>unit</i>	<p>Type temperatureUnitCode Description Unit of temperature</p> <p>Applicable Codes</p> <p>CEL Celsius</p>
└─ Label	<p>Occurence 0 .. 1 Type DGLabelType Description Label</p>
└─ xs:sequence	Occurence 1 .. 1
└─ Code	<p>Occurence 0 .. 1 Type an..4 Length .. 4 Description Code</p>

Element/Attribute	Annotation
– FirstAdditionalLabel	<p>Occurence 0 .. 1 Type an..4 Length .. 4 Description First additional label</p>
– SecondAdditionalLabel	<p>Occurence 0 .. 1 Type an..4 Length .. 4 Description Second additional label</p>
– MarinePollutantIndicator	<p>Occurence 0 .. 1 Type xs:boolean Description Indicator marine pollutant</p>
– LimitedQuantityIndicator	<p>Occurence 1 .. 1 Type xs:boolean Description Indicator limited quantity</p>
– ExceptedQuantityIndicator	<p>Occurence 0 .. 1 Type xs:boolean Description Indicator "excepted quantity" (This is a new regulation for the transport of excepted quantities, similar to the transport of limited quantity, simplified regulations apply to the transport of these dangerous goods.)</p>
– PackingGroup	<p>Occurence 0 .. 1 Type an..3 Length .. 3 Description Packaging group - Mandatory in case of N.O.S. position (not otherwise specified), meaning if one of the following character sequences occurs in the element ProperShippingName: NOS/nos/N.O.S./n.o.s./NAG/nag/N.A.G./n.a.g. Possible contents I, II, III >= (does not apply for the class 1,2 and 7)</p>
– Properties	<p>Occurence 0 .. 1 Type an..216 Length .. 216 Description Properties/remarks</p>
– WaterHazardClass	<p>Occurence 0 .. 1 Type waterHazardClassCode Description WGK code, water hazard class - coding: 0/1/2/3</p> <p>Applicable Codes</p> <p>0 not assigned 1 low water hazard material 2 water hazard material 3 high water hazard material</p>
– ProperShippingName	<p>Occurence 1 .. 1 Type an..72 Length .. 72 Description Proper technical term - Proper technical shipping term according to IMDG code</p>
– TechnicalName	<p>Occurence 0 .. 1 Type an..110 Length .. 110 Description Hazard trigger - Mandatory in case of dangerous goods listed in the general introduction IMDG code chapter 7.</p>
– GGVSAAndADRInformation	<p>Occurence 0 .. 1 Type DGGGVSAAndADRInformationType Description GGVSA/ADR specifications - Specifications referring to the dangerous goods regulations street</p>
– xs:sequence	<p>Occurence 1 .. 1</p>
– Class	<p>Occurence 0 .. 1 Type an..4 Length .. 4 Description Class</p>
– Figure	<p>Occurence 0 .. 1 Type an..4 Length .. 4</p>

Element/Attribute	Annotation
ExplosiveInformation	Description Number
	Occurence 0 .. 1
	Type DGExplosiveInformationType
	Description Extended information in case of explosive dangerous goods
xs:sequence	Occurence 1 .. 1
Stowage	Occurence 0 .. 1
	Type an..3
	Length .. 3
	Description Stowage method (acc. to 27. Amdt. IMDG code)
CompatibilityGroup	Occurence 0 .. 1
	Type an1
	Description Compatibility group
PowderWeight	Occurence 0 .. 1
	Type Weight7.3Type
	FractionDigits 3
	TotalDigits 10
	Pattern \d{1,7}(\.\d{1,3})?
	Description Net powder weight
	Type weightUnitCode
unit	Description Unit of measurement of the weight Applicable Codes KGM Kilogramm
RadioactivityInformation	Occurence 0 .. 1
	Type DGRadioactivityInformationType
	Description Extended information in case of radioactive dangerous goods
	xs:sequence
Activity	Occurence 1 .. 1
	Type ActivityType
	Length .. 4
	Description Activity
unit	Type radioactiveActivityUnitCode Description Unit of activity Applicable Codes 2Q Kilobecquerel 4N Megabecquerel BQ Becquerel (Deprecated!) BQL Becquerel GBQ Gigabecquerel KBQ Kilobecquerel (Deprecated!) MBQ Megabecquerel (Deprecated!) PBQ Petabecquerel TBQ Terabecquerel
Category	Occurence 1 .. 1
	Type an..4
	Length .. 4
	Description Category
TransportCode	Occurence 1 .. 1
	Type an..3
	Length .. 3
	Description Transport code (not required in case of sheet number 01-04)
PackingType	Occurence 1 .. 1
	Type dgPackingTypeCode
	Description Packing type class 7 Applicable Codes A Type A Package B(M) Type B(M) Package B(U) Type B(U) Package C Type C Package FREI Excepted Package IP-1 Industrial Package Type 1 (Type IP-1 Package)

Element/Attribute	Annotation
	Applicable Codes
	IP-2 Industrial Package Type 2 (Type IP-2 Package)
	IP-3 Industrial Package Type 3 (Type IP-3 Package)
	IP1 Industrial Package Type 1 (Type IP-1 Package) (Deprecated!)
	IP2 Industrial Package Type 2 (Type IP-2 Package) (Deprecated!)
	TYP A Type A Package (Deprecated!)
	TYP B Type B(U) Package (Deprecated!)
	TYP C Type C Package (Deprecated!)
	TYP M Type B(M) Package (Deprecated!)
Dimensions	Occurrence 0 .. 1 Type DimensionsType Description Dimensions forwarding agency
xs:sequence	
Dimension	Occurrence 1 .. 1 Type DimensionType Description Dimensions forwarding agency
xs:sequence	
Count	Occurrence 0 .. 1 Type n..4 FractionDigits 0 TotalDigits 4 Inclusive 1 .. Pattern \d{1,4} Description Number
Size	Occurrence 0 .. 1 Type SizeType Description Length specifications
xs:sequence	
Length	Occurrence 0 .. 1 Type LengthType FractionDigits 0 TotalDigits 4 Inclusive 1 .. Pattern \d{1,4} Description Length
unit	Type sizeUnitCode Description Unit of size specifications
Width	Occurrence 0 .. 1 Type LengthType FractionDigits 0 TotalDigits 4 Inclusive 1 .. Pattern \d{1,4} Description Width
unit	Type sizeUnitCode Description Unit of size specifications
Height	Occurrence 0 .. 1 Type LengthType FractionDigits 0 TotalDigits 4 Inclusive 1 .. Pattern \d{1,4} Description Height
unit	Type sizeUnitCode Description Unit of size specifications
	Applicable Codes
	CMT Zentimeter/Centimeter
	Applicable Codes
	CMT Zentimeter/Centimeter

Element/Attribute	Annotation
Volume	<p>Occurence 0 .. 1 Type VolumeType Description Measurements volume</p>
xs:sequence	<p>Occurence 1 .. 1</p>
Single	<p>Occurence 0 .. 1 Type Volume4.3Type FractionDigits 3 TotalDigits 7 Pattern \d{1,4}(\.\d{1,3})? Description Single coubage</p>
unit	<p>Type volumeUnitCode Description Unit of volume specifications</p> <p>Applicable Codes</p> <p>MTQ Kubikmeter</p>
Total	<p>Occurence 0 .. 1 Type Volume8.3Type FractionDigits 3 TotalDigits 11 Pattern \d{1,8}(\.\d{1,3})? Description Total coubage</p>
unit	<p>Type volumeUnitCode Description Unit of volume specifications</p> <p>Applicable Codes</p> <p>MTQ Kubikmeter</p>
Packages	<p>Occurence 0 .. 1 Type PackagesType Description All positions to a package line</p>
xs:sequence	<p>Occurence 1 .. 1</p>
Package	<p>Occurence 1 .. 999 Type PackageType Description A position to a goods item</p>
xs:sequence	<p>Occurence 1 .. 1</p>
Packageld	<p>Occurence 1 .. 1 Type an..35 Length .. 35 Description A unique and unambiguous package identification number</p>
DetailInformation	<p>Occurence 1 .. 1 Type GoodsDetailInformationType Description Several detail information to goods item</p>
xs:sequence	<p>Occurence 1 .. 1</p>
NumberOfPackages	<p>Occurence 1 .. 1 Type n..6 FractionDigits 0 TotalDigits 6 Inclusive 1 .. Pattern \d{1,6} Description Number of packages</p>
PackingCode	<p>Occurence 1 .. 1 Type an2 Description Packing code. Code list under: https://www.dakosy.de/fileadmin/Redakteur/Support/Dokumentation/Entwicklerdokumentation/EDI/Allgemein/Verpackungsartenschluessel.pdf</p>
GrossWeight	<p>Occurence 1 .. 1 Type Weight7.3Type FractionDigits 3 TotalDigits 10 Pattern \d{1,7}(\.\d{1,3})? Description Gross weight (excl. container tara), gross mass. The gross mass is understood to be the mass of the goods with all enclosures except the transport material and in particular containers.</p>
unit	<p>Type weightUnitCode</p>

Element/Attribute	Annotation
	Description Unit of measurement of the weight
	Applicable Codes
	KGM Kilogramm
– MarksAndNumbers	Occurence 0 .. 1 Type an..1024 Length .. 1024 Description Marks and numbers
– GoodsDescription	Occurence 0 .. 1 Type an..1024 Length .. 1024 Description Goods description
– MeansOfTransportID	Occurence 0 .. 1 Type an..13 Length .. 13 Description Means of transport indicator
– Remarks	Occurence 0 .. 1 Type an..1024 Length .. 1024 Remark G27 Description Remarks
VehicleInformation	Occurence 0 .. 1 Type VehicleInformationType Description Information to a vehicle
xs:sequence	Occurence 1 .. 1
– ChassisNumber	Occurence 0 .. 1 Type chassisNumberType Length .. 17 Pattern [^oO]{1,17} Description Chassis number of a vehicle - Note: The character "I" and "O" are not permitted. Instead, always send the digit "1" (one) and "0" (zero).
– EquipmentIndicator	Occurence 0 .. 1 Type xs:boolean Description Indicates whether it is vehicle loading equipment. true = yes, ChassisNumber must be filled, false or not available = no.
– AdditionalCargoIndicator	Occurence 0 .. 1 Type xs:boolean Description Indicates whether it is vehicle loading additional cargo. true = yes, ChassisNumber must be empty, false or not available = no.
DangerousGoodsInformations	Occurence 0 .. 1 Type DangerousGoodsInformationsType Description Dangerous goods informations
xs:sequence	Occurence 1 .. 1
– DangerousGoodsInformation	Occurence 1 .. 99 Type DangerousGoodsInformationType Description Dangerous goods information
xs:sequence	Occurence 1 .. 1
– IMDGAmendment	Occurence 0 .. 1 Type an..10 Length .. 10 Description Amendment of IMDG code where the dangerous goods information refer to
– IMDGClass	Occurence 1 .. 1 Type an..4 Length .. 4 Description IMDG class - check against the IMDG code as well as compatibility assessment with UN number
– UNNumber	Occurence 1 .. 1 Type an..4 Length .. 4 Description UN number - check against the IMDG code as well as

Element/Attribute	Annotation
	compatibility assessment with IMDG class. NONE permitted.
EmergencyProcedure	Occurrence 0 .. 1 Type EmergencyProcedureType
xs:sequence	Occurrence 1 .. 1
FireSchedule	Occurrence 0 .. 1 Type fireScheduleType Pattern F-[A-J] Description Accident leaflets for fire (emergency procedure)
SpillageSchedule	Occurrence 0 .. 1 Type spillageScheduleType Pattern S-[A-Z] Description Accident leaflets for leakage (emergency procedure)
FlashPoint	Occurrence 0 .. 1 Type Temperature1000Type FractionDigits 0 Inclusive -999 .. 999 Description Flashpoint - Mandatory in case of class 3 or if the 1. digit of a label = 3
unit	Type temperatureUnitCode Description Unit of temperature
Applicable Codes	
	CEL Celsius
Label	Occurrence 0 .. 1 Type DGLabelType Description Label
xs:sequence	Occurrence 1 .. 1
Code	Occurrence 0 .. 1 Type an..4 Length .. 4 Description Code
FirstAdditionalLabel	Occurrence 0 .. 1 Type an..4 Length .. 4 Description First additional label
SecondAdditionalLabel	Occurrence 0 .. 1 Type an..4 Length .. 4 Description Second additional label
MarinePollutantIndicator	Occurrence 0 .. 1 Type xs:boolean Description Indicator marine pollutant
LimitedQuantityIndicator	Occurrence 1 .. 1 Type xs:boolean Description Indicator limited quantity
ExceptedQuantityIndicator	Occurrence 0 .. 1 Type xs:boolean Description Indicator "excepted quantity" (This is a new regulation for the transport of excepted quantities, similar to the transport of limited quantity, simplified regulations apply to the transport of these dangerous goods.)
PackingGroup	Occurrence 0 .. 1 Type an..3 Length .. 3 Description Packaging group - Mandatory in case of N.O.S. position (not otherwise specified), meaning if one of the following character sequences occurs in the element ProperShippingName: NOS/nos/N.O.S./n.o.s./NAG/nag/N.A.G./n.a.g. Possible contents I, II, III >= (does not apply for the class 1,2 and 7)
Properties	Occurrence 0 .. 1 Type an..216 Length .. 216

Element/Attribute	Annotation
WaterHazardClass	Description Properties/remarks
	Occurence 0 .. 1
	Type waterHazardClassCode
	Description WGK code, water hazard class - coding: 0/1/2/3
Applicable Codes	
0	not assigned
1	low water hazard material
2	water hazard material
3	high water hazard material
PropperShippingName	Occurence 1 .. 1
	Type an..72
	Length .. 72
	Description Propper technical term - Propper technical shipping term according to IMDG code
TechnicalName	Occurence 0 .. 1
	Type an..110
	Length .. 110
	Description Hazard trigger - Mandatory in case of dangerous goods listed in the general introduction IMDG code chapter 7.
GGVSAAndADRInformation	Occurence 0 .. 1
	Type DGGGVSAAndADRInformationType
	Description GGVSA/ADR specifications - Specifications referring to the dangerous goods regulations street
	xs:sequence
Class	Occurence 1 .. 1
	Occurence 0 .. 1
	Type an..4
	Length .. 4
Figure	Description Class
	Occurence 0 .. 1
	Type an..4
	Length .. 4
ExplosiveInformation	Description Number
	Occurence 0 .. 1
	Type DGExplosiveInformationType
	Description Extended information in case of explosive dangerous goods
xs:sequence	
Stowage	Occurence 1 .. 1
	Occurence 0 .. 1
	Type an..3
	Length .. 3
CompatibilityGroup	Description Stowage method (acc. to 27. Amdt. IMDG code)
	Occurence 0 .. 1
	Type an1
	Description Compatibility group
PowderWeight	Occurence 0 .. 1
	Type Weight7.3Type
	FractionDigits 3
	TotalDigits 10
	Pattern \d{1,7}(\.\d{1,3})?
	Description Net powder weight
	Type weightUnitCode
unit	
RadioactivityInformation	Description Unit of measurement of the weight
	Applicable Codes
	KGM Kilogramm
	Occurence 0 .. 1
Type DGRadioactivityInformationType	
Description Extended information in case of radioactive dangerous goods	
xs:sequence	
Activity	Occurence 1 .. 1
	Occurence 1 .. 1
	Type ActivityType
	Length .. 4
Description Activity	

Element/Attribute	Annotation	
unit	Type radioactiveActivityUnitCode	
	Description Unit of activity	
	Applicable Codes	
	2Q Kilobecquerel	
	4N Megabecquerel	
	BQ Becquerel (Deprecated!)	
	BQL Becquerel	
	GBQ Gigabecquerel	
	KBQ Kilobecquerel (Deprecated!)	
	MBQ Megabecquerel (Deprecated!)	
Category	Occurrence 1 .. 1	
	Type an..4	
	Length .. 4	
	Description Category	
TransportCode	Occurrence 1 .. 1	
	Type an..3	
	Length .. 3	
	Description Transport code (not required in case of sheet number 01-04)	
PackingType	Occurrence 1 .. 1	
	Type dgPackingTypeCode	
	Description Packing type class 7	
	Applicable Codes	
	A Type A Package	
	B(M) Type B(M) Package	
	B(U) Type B(U) Package	
	C Type C Package	
	FREI Excepted Package	
	IP-1 Industrial Package Type 1 (Type IP-1 Package)	
	IP-2 Industrial Package Type 2 (Type IP-2 Package)	
	IP-3 Industrial Package Type 3 (Type IP-3 Package)	
	IP1 Industrial Package Type 1 (Type IP-1 Package) (Deprecated!)	
	IP2 Industrial Package Type 2 (Type IP-2 Package) (Deprecated!)	
TYP A Type A Package (Deprecated!)		
TYP B Type B(U) Package (Deprecated!)		
TYP C Type C Package (Deprecated!)		
TYP M Type B(M) Package (Deprecated!)		
Dimensions	Occurrence 0 .. 1	
	Type DimensionsType	
xs:sequence	Description Measurements forwarding agency	
	Occurrence 1 .. 1	
Dimension	Occurrence 1 .. 999	
	Type DimensionType	
	Description Dimensions forwarding agency	
	Occurrence 1 .. 1	
xs:sequence	Count	
	Occurrence 0 .. 1	
	Type n..4	
	FractionDigits 0	
	TotalDigits 4	
	Inclusive 1 ..	
	Pattern \d{1,4}	
	Description Number	
Size	Occurrence 0 .. 1	
	Type SizeType	
	Description Length specifications	
xs:sequence	Occurrence 1 .. 1	

Element/Attribute	Annotation
Length	<p>Occurence 0 .. 1 Type LengthType FractionDigits 0 TotalDigits 4 Inclusive 1 .. Pattern \d{1,4} Description Length</p>
unit	<p>Type sizeUnitCode Description Unit of size specifications Applicable Codes CMT Zentimeter/Centimeter</p>
Width	<p>Occurence 0 .. 1 Type LengthType FractionDigits 0 TotalDigits 4 Inclusive 1 .. Pattern \d{1,4} Description Width</p>
unit	<p>Type sizeUnitCode Description Unit of size specifications Applicable Codes CMT Zentimeter/Centimeter</p>
Height	<p>Occurence 0 .. 1 Type LengthType FractionDigits 0 TotalDigits 4 Inclusive 1 .. Pattern \d{1,4} Description Height</p>
unit	<p>Type sizeUnitCode Description Unit of size specifications Applicable Codes CMT Zentimeter/Centimeter</p>
Volume	<p>Occurence 0 .. 1 Type VolumeType Description Measurements volume</p>
xs:sequence	<p>Occurence 1 .. 1</p>
Single	<p>Occurence 0 .. 1 Type Volume4.3Type FractionDigits 3 TotalDigits 7 Pattern \d{1,4}(\.\d{1,3})? Description Single coubage</p>
unit	<p>Type volumeUnitCode Description Unit of volume specifications Applicable Codes MTQ Kubikmeter</p>
Total	<p>Occurence 0 .. 1 Type Volume8.3Type FractionDigits 3 TotalDigits 11 Pattern \d{1,8}(\.\d{1,3})? Description Total coubage</p>
unit	<p>Type volumeUnitCode Description Unit of volume specifications Applicable Codes MTQ Kubikmeter</p>
Containers	<p>Occurence 0 .. 1 Type ContainersType Description This element summarizes information to all containers of a batch.</p>
xs:sequence	<p>Occurence 1 .. 1</p>

Element/Attribute	Annotation
Container	<p>Occurence 1 .. 999 Type ContainerType Description Information about a container</p>
xs:sequence	<p>Occurence 1 .. 1</p>
ContainerNumber	<p>Occurence 1 .. 1 Type an..12 Length .. 12 Description Container number</p>
NonIsoContainerIndicator	<p>Occurence 0 .. 1 Type xs:boolean Description Indicates whether it is about a non iso container or not. true = it is about a non iso container, false or element not available = it is not about a non iso container</p>
Seal	<p>Occurence 0 .. 1 Type an..11 Length .. 11 Description Seal number</p>
SizeType	<p>Occurence 1 .. 1 Type an..4 Length .. 4 Description Container size and type code according to ISO6346</p>
TemperatureRange	<p>Occurence 0 .. 1 Type TemperatureRangeType Description Temperature range</p>
xs:sequence	<p>Occurence 1 .. 1</p>
Min	<p>Occurence 0 .. 1 Type Temperature100Type FractionDigits 0 Inclusive -99 .. 99 Description Minimum temperature</p>
unit	<p>Type temperatureUnitCode Description Unit of temperature Applicable Codes CEL Celsius</p>
Max	<p>Occurence 0 .. 1 Type Temperature100Type FractionDigits 0 Inclusive -99 .. 99 Description Maximum temperature</p>
unit	<p>Type temperatureUnitCode Description Unit of temperature Applicable Codes CEL Celsius</p>