

## **PSS – Dangerous Goods Transport Processing (DTP)**

### **Brief information**

*Dr. Hans-Albert Beul*

Prosisoft developed the application PSS - Dangerous Goods Transport Processing (DTP) for the automatic generation of transport documents and packaging hints for dangerous goods. DTP is conceived for cooperation with any kind of ERP- and hazardous substance management system and is configured according to the customer's requirements.

DTP is run as a service on a PC, uses the relevant order- and shipment related data of the respective ERP system and the used hazardous substance management system, and determines - by means of the up-to-date dangerous goods data contained in DTP – the necessary information for the different transport modes land, sea, air (ADR/RID, IMDG, IATA).

Based on this information the corresponding required documents (transport documents and packaging hints) are calculated and sent to the printers of the packing stations. The documents are combined related to shipping orders; documents belonging together are listed on a cover for enabling quick assignment by the packer. The complete resulting data can also be forwarded as XML file for further processing.

For communication between DTP and the other systems normally XML files are used, which are configured on agreement with the customer according to his needs. Other data formats are possible too. The DTP service is normally triggered by order posting in the ERP system.

The calculations are carried out based the volumes transported according to the shipment order, the dangerous goods classifications assigned to the corresponding items, and other data from the hazardous substance management if necessary, so that exempted quantities, limited quantity transportation and other exemption provisions can be considered.

### **Transport documents**

Depending on the transport route the transport document according to ADR and/or the IMO Declaration for sea transport, the IATA Declaration for air transport respectively, are calculated and generated.

On the ADR Transport Document the exempted quantities (for applying the 1000 scores rule) are determined based on all shipment items and printed. If necessary and if the required information is available, the transport document can also be generated based on a freight list (loading list) for this transport. On the IMO Declaration the Marine Pollutant information is shown. Hints on the possibility to apply the viscosity rules are shown.

<b>Beförderungspapier</b>		25. Mai 2010	
<b>Absender</b>		Seite 1	
Global-Chemie GmbH & Co. KG		sa	
Rheinhafenstraße 210			
76184 Karlsruhe			
Deutschland			
Zusteller		Lieferdatum	25.05.10
<b>Empfänger</b>		Debitor	43687129
Designstudio Gmunden		Lief. an Code	
Fr. Birgitte Vestphael			
Seepromenade 1b			
4810 Gmunden			
Österreich			
Lieferscheinnr.	102064		

  

Artikelnr.	Beschreibung	Menge Einheit	Menge pro Einheit (Basis)	Netto-gewicht	Brutto-gewicht
70103	Farbe, rot UN1263 FARBE (Zinkoxid), 3, III, (D/E)	75 Dose	1 Dose	120	138
70104	Farbe, grün UN1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (Xylol), 3, II , (D/E)	65 Dose	1 Dose	104	119,6
Summe Lieferung: 102064					
	UN1263 FARBE (Zinkoxid), 3, III, (D/E)			120	138
	120 Punkte				
	UN1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (Xylol), 3, II , (D/E)			104	119,6
	312 Punkte				
	Gesamt Punktzahl der Lieferung: 432				
Summe nach Beförderungskategorie Lieferung: 102064					
	120 Punkte für Beförderungskategorie 3			120	138
	312 Punkte für Beförderungskategorie 2			104	119,6
	Gesamt Punktzahl der Lieferung: 432				
Summe Zusteller:					
	UN1263 FARBE (Zinkoxid), 3, III, (D/E)			120	138
	120 Punkte				
	UN1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (Xylol), 3, II , (D/E)			104	119,6
	312 Punkte				
	Gesamt Punktzahl des Zustellers: 432				
Summe nach Beförderungskategorie Zusteller:					
	120 Punkte für Beförderungskategorie 3			120	138
	312 Punkte für Beförderungskategorie 2			104	119,6
	Gesamt Punktzahl des Zustellers: 432				

Beförderung ohne Überschreitung der in Unterabschnitt 1.1.3.6 festgesetzten Freigrenzen.

## Packaging hints

Additionally packaging hints are issued, which show the packer important data. For example for air traffic this comprises the output of all relevant packaging instructions, information about Limited Quantities (with differentiation between cargo and passenger aircraft), the necessary number of pack-

ages, packing together restrictions. The referenced official IATA and ADR packaging instructions can be added with their original text as a separate document.

<b><u>IATA Packaging Hints</u></b>					
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<b>Item No.</b>	<b>UN No.</b>	<b>Proper Shipping Name</b>		<b>11.06.2010</b>	
<u>47-11-AS-7</u>	<u>1684</u>	<u>SILVER CYANIDE</u>			
<b>Passenger and cargo aircraft</b>			<b>Cargo aircraft only</b>		
Packaging instructions (Limited Quantities)	Max. net weight per package (Limited Quantities)	Packaging instructions	Max. net weight per package	Packaging instructions	Max. net weight per package
Y613	1 kg	613	25 kg	615	100 kg
<b>LQ: Yes</b> <b>No. of packages: 1</b> <b>Acidity: Basic</b> <b>May not packaged be together with item/s "47-11-AS-8".</b>			<b>Ordered volume: 10 Cans of 100 ml</b> <b>Order (Net weight kg): 0,58</b>		
<u>47-11-AS-8</u>	<u>1789</u>	<u>HYDROCHLORIC ACID</u>			
Packaging instructions (Limited Quantities)	Max. net weight per package (Limited Quantities)	Packaging instructions	Max. net weight per package	Packaging instructions	Max. net weight per package
Y819	1 L	819	5 L	821	60 L
<b>LQ: Yes</b> <b>No. of packages: 1</b> <b>Acidity: Acidic</b> <b>May not packaged be together with item/s "47-11-AS-7".</b>			<b>Ordered volume: 4 Cans of 100 ml</b> <b>Order (Net weight kg): 0,51</b>		

Dr. Hans-Albert Beul  
General manager

Otto-Hahn-Straße 20a  
D-65520 Bad Camberg

Phone: +49 (0) 6434 90 48 65  
Home-Office: +49 6145 941373  
Fax: +49 (0) 6434 90 67 35  
E-Mail: [albert.beul@prosisoft.de](mailto:albert.beul@prosisoft.de)  
Homepage: [www.prosisoft.de](http://www.prosisoft.de)

Legal venue: Amtsgericht Limburg HRB 3788  
VAT ID Number: DE814406386  
General manager: Dr. Hans-Albert Beul