



Güllük Mandalya Tourism and Port Management Inc.

DANGEROUS GOODS GUIDE



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DEVLETHAN DEPO

(General Manager of Güllük Mandalya Tourism and Port Management Inc.)

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1.Classes of Dangerous Goods

According to IMDG Code and ADR, Classes and Subdivisions of Dangerous Goods are as follows in Volume 1 Section 2 of IMDG Code Book and Volume 1 Section 2 of ADR Book:

Dangerous Goods Classes

IMDG Code	Dangerous Class	Dangerous Class Name	ADR
Chapter 2.0		General	Chapter 2.1
Chapter 2.1	Class 1	Explosives	Chapter 2.2.1
Chapter 2.2	Class 2	Gases	Chapter 2.2.2
Chapter 2.3	Class 3	Flammable Liquids	Chapter 2.2.3
Chapter 2.4	Class 4.1	Flammable Liquids	Chapter 2.2.41
	Class 4.2	Solid Substances liable to spontaneous combustion	Chapter 2.2.42
	Class 4.3	Solid Substances which, in contact with water, emit flammable gases	Chapter 2.2.43
Chapter 2.5	Class 5.1	Oxidizing Substances	Chapter 2.2.51
	Class 5.2	Organic Peroxides	Chapter 2.2.52
Chapter 2.6	Class 6.1	Toxic Substances	Chapter 2.2.61
	Class 6.2	Infectious Substances	Chapter 2.2.62
Chapter 2.7	Class 7	Radioactive Materials	Chapter 2.2.7
Chapter 2.8	Class 8	Corrosives	Chapter 2.2.8
Chapter 2.9	Class 9	Miscellaneous Dangerous Goods	Chapter 2.2.9
Chapter 2.10		Marine Pollutants	Chapter 2.2.9

2. Labels, Marks and Packaging Groups of Dangerous Goods

2.1 Labels of Dangerous Goods

Class 1 Explosives



Class 2 Gases



Class 2.1



Class 2.2



Class 2.3

Class 3 Flammable Liquids



Class 4 Flammable Solids



Class 4.1



Class 4.2



Class 4.3

Class 5 Oxidizing Substances ve Organic Peroxides



Class 5.1



Class 5.2



Class 6 Toxic and Infectious Substances



Class 6.1



Class 6.2

Class 7 Radioactive Substances



Category 1



Category 2



Category 3

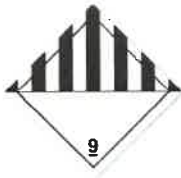


Divisible

Class 8 Corrosive Substances



Class 9 Miscellaneous Dangerous Goods



2.2 Marks and Packaging Group of Dangerous Goods

In addition to the danger classes, the followings are the other signs to be used.

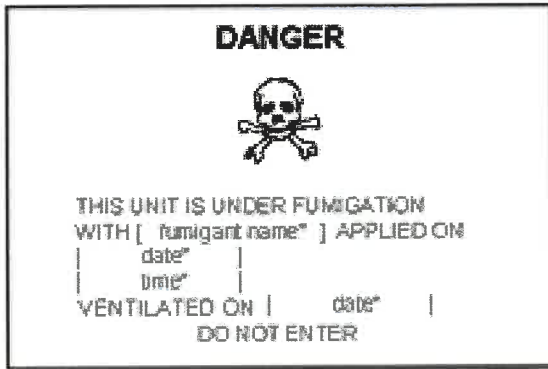
MARINE POLLUTANTS



Dangerous goods that can be transported at high temperature



Fumigation Warning Sign

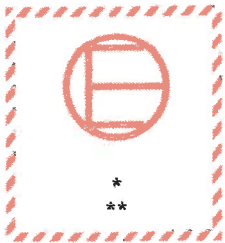


* Insert details as appropriate

Limited Amount



Exempted Amount



As shown on the Table under 3.5 Section within the scope of categories under 7b column of Dangerous Goods List written under IMDG Code Volume II, up to 1,000 pieces can be transported in this convenient package. In the case where this label is applied, the sender must be written in ** part and the danger class of the product must be stated at * place. Packaging Groups (PG) are available for different classes of dangerous goods. These groups and their meanings are as follows:

PG I - High degree of danger

PG II - Moderate danger

PG III - Low danger

However, there is no packing group for the self-reacting agents of Class 1, 2, 5.2, 6.2, 7 and 4.1, and there is no PG for Class 9.

The letters X, Y and Z in the UN type-approved packaging codes for transporting dangerous goods determine the packaging durability. The letter X is the most durable packaging available for all Packaging Groups. The letter Y is a moderately stable package and can be used for Packaging Groups II and III and the letter Z is the least durable package and should only be used for the Packaging Group III.

In the port facility, bilge water, waste oil and sludge from these hazard classes, packaged or unpacked, only from the cargo of ships under class 4.2 (UN 1374-Fish Meal (Fish Waste), Not Stabilized), 5.1 (oxidizing agent - for example ammonium nitrate) and Class 9, shall be discharged. No dangerous goods will be loaded. In road transport, packaged class 2 pressurized tubes and paint sprays, tanker or package with some class 3 paint materials and epoxies, packaged class 8 abrasive cleaning materials and are taken and emptied. Packaged class 6.2 medical wastes and class 9 hazardous wastes are sent by packaged, bulk or tanker.

3. Segregation tables on board and port according to classes of dangerous substances

The separation conditions for determining the segregation conditions of two or more dangerous cargoes will be referenced to the segregation table given in IMDG Code Volume I, 7.2.4 and to the provisions of IMDG Code Volume II Dangerous Goods List (DGL) Column 16 (b).

In the event of any conflict, the provisions of the Dangerous Goods List (DGL) Column 16 (b) shall prevail. The general segregation table of dangerous goods is given below:

There are Class 4.2, class 5.1 and class 9 substances in the port facility. Class 4.2 and class 5.1 aren't stored. Class 9 substances are stored by their own tanks.

CLASS	1.1 1.2 1.3	1.3 1.6	1.4	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8	9
Explosives 1.1, 1.2, 1.5	*	*	*	4	2	2	4	4	4	4	4	4	2	4	2	4	X
Explosives 1.3, 1.6	*	*	*	4	2	2	4	3	3	4	4	4	2	4	2	2	X
Explosives 1.4	*	*	*	2	1	1	2	2	2	2	2	2	X	4	2	2	X
Flammable Gases 2.1	4	4	2	X	X	X	2	1	2	X	2	2	X	4	2	1	X
Non-flammable, non-toxic gases 2.2	2	2	1	X	X	X	1	X	1	X	X	1	X	2	1	X	X
Toxic Gases 2.3	2	2	1	X	X	X	2	X	2	X	X	2	X	2	1	X	X
Flammable Liquids 3	4	4	2	2	1	2	X	X	2	1	2	2	X	3	2	X	X
Flammable Solid Substances 4.1	4	3	2	1	X	X	X	X	1	X	1	2	X	3	2	1	X
Substances liable to spontaneous combustion 4.2	4	3	2	2	1	2	2	1	X	1	2	2	1	3	2	1	X
Substances which, in contact with water, emit flammable gases 4.3	4	4	2	X	X	X	1	X	1	X	2	2	X	2	2	1	X
Oxidizing Substances 5.1	4	4	2	2	X	X	2	1	2	2	X	2	1	3	1	2	X
Organic Peroxides 5.2	4	4	2	2	1	2	2	2	2	2	2	X	1	3	2	2	X
Toxic Substances 6.1	2	2	X	X	X	X	X	X	1	X	1	1	X	1	X	X	X
Infectious Substances 6.2	4	4	4	4	2	2	3	3	3	2	3	3	1	X	3	3	X
Radioactive Substances 7	2	2	2	2	1	1	2	2	2	2	1	2	X	3	X	2	X
Corrosives 8	4	2	2	1	X	X	X	1	1	1	2	2	X	3	2	X	X
Miscellaneous Dangerous Goods 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

The decomposition terms in this table provide information on the distances that must be between the dangerous goods of different classes:

"1": away from"....." : It can be transported in the same compartment or hold or on the deck with a horizontal separation of at least 3 meters.

"2": seperated from "....": It can be transported in different compartment under deck or at least 6 meters horizontal distance on deck.

"3": "seperated by.....with one full part or different compartment: It can be transported on the deck with a horizontal distance of at least 12 meters. It cannot be moved under the deck in the same warehouse or compartment.

"4": Separated longitudinally by an intervening complete compartment or hold from....: It can be transported on the deck with a horizontal distance of at least 24 meters. In the case of transport under the deck, another compartment must be maintained in the longitudinal direction between the dangerous goods.

For **"X"** and **"*"** stowage conditions specified within special provisions under IMDG Code and Dangerous Goods List shall apply.

Dangerous loads within the different cargo transport units or available in packages in the port area will be stacked based on the distances in the following separation table:

		2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	8	9
Flammable Gases	2.1	0	0	0	S	A	S	0	S	S	0	A	0
Flammable but non-toxic gases	2.2	0	0	0	A	0	A	0	0	A	0	0	0
Toxic Gases	2.3	0	0	0	S	0	S	0	0	S	0	0	0
Flammable Liquids	3	S	A	S	0	0	S	A	S	S	0	0	0
Flammable Solids	4.1	A	0	0	0	0	A	0	A	S	0	A	0
Substances liable to spontaneous combustion	4.2	S	A	S	S	A	A	A	S	S	A	A	0
Solid Substances which, in contact with water, emit flammable gases	4.3	0	0	0	A	0	A	0	S	S	0	A	0
Oxidizing Substance	5.1	S	0	0	S	A	S	S	0	S	A	S	0
Organic Peroxides	5.2	S	A	S	S	S	S	S	S	0	A	S	0
Toxic Substances	6.1	0	0	0	0	0	A	0	A	A	0	0	0
Corrosive Substances	8	A	0	0	0	A	A	A	S	S	0	0	0
Miscellaneous Dangerous Goods	9	0	0	0	0	0	0	0	0	0	0	0	0

Packaging / IBCs / trailers / for flat or platform containers

0 = no separation required (unless otherwise specified in special provisions)

A = "away from..." – minimum 3 m distance

S = "away from..." – minimum 6 m distance at open areas;

Minimum 12 m distance in closed areas or warehouses or seperated by fire-proof Wall

Closed containers / portable tanks / for closed road vehicles

O = no separation required (unless otherwise specified in special provisions)

A = "away from..." – no separation required (unless otherwise specified in special provisions)

S = "away from..." – minimum 3 m longitudinal and horizontal distance at open areas; Minimum 6m distance in closed areas or warehouses or seperated by fire-proof Wall

For open road vehicles / train wagons / open containers

O = no separation required (unless otherwise specified in special provisions)

A = "away from..." – minimum 3 m distance

S = "away from..." – minimum 6 m longitudinal and horizontal distance at open areas;

Minimum 12 m distance in closed areas or warehouses or seperated by fire-proof Wall

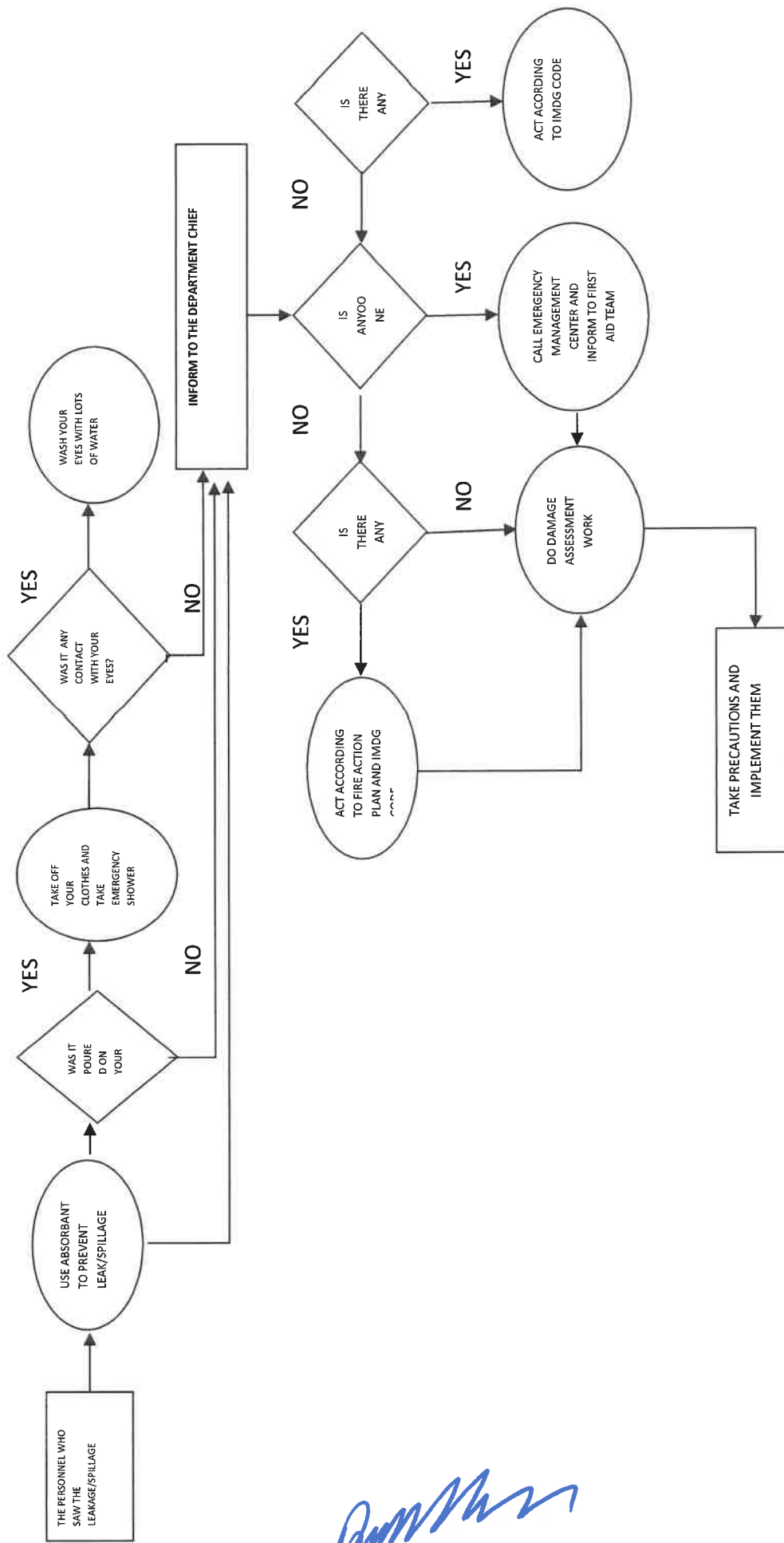
4. Dangerous Goods Documents

There is no exemplary form since no dangerous cargo has been transported yet.





5.Dangerous Goods Emergency Action Plan Diagram



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6. Hot Working Procedures (Instruction Annex-10)

Signals and marks to be used for ships, carrying flammable, explosive or similar substances are as follows;

- * Day time : "B" streamer (Bravo: Dangerous Goods, Loading, Discharging or Carrying)
- * Night Time: 360 degree visible permanent red light.

Cold and hot work on ships handling hazardous cargo in port:

For the purpose of hot and cold working and maintenance or repair, the ships and vessels which will perform gas free operation shall comply with the provisions of the gas free regulation in the construction, modification, maintenance, repair and dismantling operations of ships and vessels, published in the dated 21.12.2004 and numbered as (25677) Official Newspaper.

7. Hazardous Solid Cargo Handling (Instruction Annex-3)

- 1- Area supervisor, ensures that ships are berthed and moored in an appropriate, protected and safe manner.
- 2- The foreman ensures that the entry and exit system between the ship and the shore is convenient and safe.
- 3- The Foreman, ensures that dangerous cargoes are transported, properly handled, temporarily held and inspected by personnel who are appropriately qualified, trained and have taken occupational safety measures.
- 4- The operation officer shall ensure that all required documents, information and documents related to dangerous cargoes are present with the cargo by requesting the person in charge for cargo.
- 5- The Occupational Health and Safety (OHS) specialist ensures that all operating personnel are trained and trained on the risks of dangerous goods handled, safety measures, safe work, emergency measures, safety and similar issues and keeps all records.
- 6- The area supervisor checks the relevant documents to confirm that dangerous cargoes entering their facilities are properly identified, classified, certified, packaged, labeled, declared, safely loaded and transported to the approved and compliant packaging, container and cargo handling unit.
- 7- The Occupational Health and Safety (OHS) specialist takes the necessary safety measures for dangerous substances that are not in compliance with the rules, unsafe and which pose a risk to persons or the environment.
- 8- The ational Health and SafetyOccup (OHS) specialist ensures that emergency arrangements are made and that all persons are informed about these issues.
- 9- The The Occupational Health and Safety (OHS) expert informs to the Port Authority, all dangerous cargo accidents occurring in the area of operational responsibility.
- 10- The Area Supervisor provides the necessary support and cooperation in the checks carried out by the authorities.
- 11- The Area Supervisor ensures that the activities related to the dangerous goods are carried out in docks, wharfs and warehouses that are established in accordance with these works.
12. The Area Supervisor ensures that ships and marine vehicles carrying dangerous goods are not docked at the dock and pier without the permission of the port authority.
13. The Area manager ensures that an emergency evacuation plan is prepared for the evacuation of ships and marine vehicles from the coastal facilities in case of emergency.

Dangerous solid bulk cargoes will not be stored at the port and will be sent as sling. Therefore, no segregation rule is required in the port area; however, as general information, separation rules are given in sections 4.5 and 4.6.

8. EMERGENCY PLAN

The emergency plan is attached.

9. ACCIDENTAL PREVENTION POLICY

The accident prevention policy is given in the appendix.