

**IASIS**

**Grassland Pesticides**

**Seminar**

**Dangerous Goods**

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Kilmore Hotel, Cavan

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# CHEMICAL PRODUCTS

Hazardous

Dangerous

Transport

# HAZARDOUS

Health Risk

Immediate/Long Term

Labels informs user of dangers

**Old system (CPL)    New system (CLP)**



# Three new Symbols



Compressed gas  
Gas under pressure



Acute Toxicity  
Skin Irritation



Aspiration hazard  
Respiratory sensitisation  
Open cell mutagenicity  
Carcinogenicity  
Reproductive toxicity

# Pictograms, Hazards and Precautionary Statements



Current Indication of Danger & corresponding symbols (CPL) From Directives 67/548/EEC & 1999/45/EC		New* Signal words & corresponding pictograms (CLP) From Regulation EC 1272/2008		
Indication of Danger	Symbol	Class/Category	Signal Word	Pictogram
Explosive E		Explosives 1.1-1.3 Explosives 1.4	Danger Warning	
Extremely Flammable F+ Highly Flammable F		Flammable Liquids 1.2 Flammable liquids 3	Danger Warning	
Oxidising O		Oxidising Liquids 1.2 Oxidising Liquids 3	Danger Warning	
No Match	No Match	(NEW) Gases under pressure, compressed gases	Warning	
Corrosive C		Skin Corrosion 1A, 1B, 1C Corrosive to metals 1	Danger Warning	
Very Toxic T+ Toxic T		Acute Toxicity 1, 2, 3	Danger	
Harmful Xn Irritant Xi		Acute Toxicity 4 Skin Irritation 2	Warning Warning	
Harmful Xn Toxic T	or	Aspiration hazard Respiratory sensitization, Germ cell mutagenicity, Carcinogenicity, Reproductive toxicity, Specific target organ toxicity	Warning or Danger	
Dangerous to the environment N		Hazardous to the aquatic environment 1	Warning	

\*This is a non exhaustive list and is for illustrative purposes only. The user should refer to the Regulation (EC) 1272/2008 for more detailed information

CLP now uses **Hazard (H) statements**, which are:

Hazard (H) Statements	
H200-H299	Physical hazard
H300-H399	Health hazard
H400-H499	Environmental hazard

CLP now also uses **Precautionary (P) statements**, which are:

Precautionary (P) Statements	
	Examples
100 General	P102 "Keep out of Reach of Children"
200 Prevention	P201 "Obtain special instruction before use"
300 Response	P310 "Call a poison centre"
400 Storage	P410 "Store in a well ventilated place"
500 Disposal	P501 "Dispose of container to..."

A number of "leftover" EU Risk Phrases are now preceded with EUH codes and known as supplemental hazard information, for example:

Risk Phrases	Supplemental Hazard Information
R1	EUH001 "Explosive when dry"
R66	EUH066 "Repeated exposure may cause skin dryness or cracking"
R59	EUH059 "Hazardous to ozone layer"

# DANGEROUS

- Immediate physical danger
- Strength of chemicals/container size
- Products have unique I D number (UN Number)
- Have a “Shipping Name” for transport
- Identified with a “Transport Label”
- Are subject to ADR regulations

**United Nations Classes**  
These classes warn about the kind of risk(s) to be found in a substance

- 1 - Explosives
- 2 - Gases
- 3 - Flammable liquids
- 4 - Other flammables
- 5 - Oxidizers and OPs
- 6 - Toxics/Infectious
- 7 - Radioactive materials
- 8 - Corrosives
- 9 - Miscellaneous

**Extras**

**IMDG** **ADR**

# LIMITED QUANTITY PRODUCT

- Applies to chemical products that are packed in such small containers that there is a smaller risk of them creating an incident during transport.
  
- Chemical products are divided into three groups related to their risk/danger level.

These groups are:

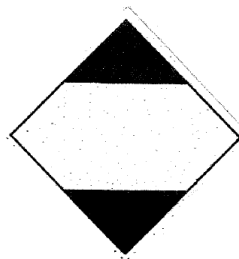
Packing Group I - Greatest danger

Packing Group II - Medium danger

Packing group III - Lesser danger



- Container size to meet “Limited Quantity “ criteria can vary according to the particular products Packing Group and in general:
  - Packing Group I products have no Limited Quantity
  - Packing Group II products have a container size of 1lt/kg
  - Packing Group III products have a container size of 5lt/kg
  
- Limited Quantity (LQ) products are **not** subject to ADR regulations
  
- Limited Quantity products are identified by a **special label**



Product	UN No	Classes	PG	Packaging	Ltd Qty	Packaging	Non Ltd Qty
Longbow	3082	9	III	4 x 5lt ctn	yes	-	-
Pybruthrin 33	3082	9	III	4 x 5lt ctn	yes	-	-
Roundup	3082	9	III	4 x 5lt ctn	yes	-	-
Roundup	3082	9	III	-	-	20lt cont	yes
Chipco Green	3082	9	III	4 x 5lt ctn	yes	-	-
Ficam D	3077	9	III	4 x 3kg bags	yes	-	-
Gallup 360	3082	9	III	4 x 5lt ctn	yes	-	-
Gallup 360	3082	9	III	-	-	20lt cont	yes
Pistol	3082	9	III	4 x 5lt ctn	yes	-	-
K-Obiol EC25	1993	3	III	6 x 1 lt ctn	yes	-	-

# Transport of chemicals

## Carriage by private individuals

- If chemical products are for personal use/domestic use/sporting activities they are not subject to ADR with the following conditions.
- Maximum container size is 60lt/kg
- Maximum quantity is 240lt/kg
- Load must be secured within the vehicle.

## Limited Quantity Products

- Chemical products packed in containers of 5kg/lt or less are not subject to ADR.
- Load must be secured within the vehicle.

## Exempt Quantities.

- Chemical products packed in containers greater than 5lt/kg are subject to some ADR regulations, these are:
  - Load size: maximum load per vehicle is 333 lt/kg per vehicle for PG II product and 1,000lt/kg per vehicle for PG III product
  - Vehicle equipment, 2kg fire extinguisher x 1, non spark handlamp x 1

## **Transport Document** (delivery docket/invoice)

must be ADR compliant:

- i.e. it must give product(s) UN Number, Shipping name, Class, Packing Group.
- It must be marked with the following

### **“Load not exceeding the limits prescribed in 1.1.3.6..3”**

e.g: Rover 500 in 10 lt or 20 lt containers, information required is UN 3082, Environmentally hazardous substance, liquid, NOS, (chlorothalonil (ISO)), 9, III

### **Driver’s Responsibilities:**

- Secure load within the vehicle
- During loading / unloading
  - (a) apply parking brake and
  - (b) do not smoke or use electronic cigarette
- Do not open packages during transport.

**Thank you**

**Qs?**