DG and GHS Classification System

Labels

All packages containing DG must display labels identifying the product hazard.

DG Class labels are always shown in diamond format.

Class labels should not be less than 100mm square, except for small packages.
HRAC HERBICIDE GROUP CODE G

A water soluble concentrate non-selective, foliar applied systemic herbicide for the control of a wide range of annual and perennial weeds in agricultural, non-crop and industrial areas.

Active Ingredient

Glyphosate (glicine)  500 g/l (Potassium salt)

CAUTION
The product is a liquid mixture:
- Classified as a suspected reproductive toxicant, classification 6.8B and as flammable liquid, classification 3.1C
- Has a UN RTDG classification of “flammable liquid, UN 1263”

Label for a Small Workplace Container (10 Litres)

ZZZ Red Paint
UN1263
FLAMMABLE LIQUID, PAINT
ERMANZ Register Approval Number: XXXX

CHRONIC TOXIC
FLAMMABLE LIQUID

WARNING
Suspected of damaging fertility or the unborn child
Flammable liquid and vapour
Contains lead pigments (3.5%) and celllosolve acetate (30%)

Keep away from all sources of ignition and keep container tightly closed
Keep away from food and drink
Avoid contact with skin and eyes and inhalation of the vapour
Do not handle until precautions on this label and in Safety Data Sheet have been read and understood

Prevention Measures:
Use explosion-proof electrical equipment and non-sparking tools, and take precautions against static discharge when working with this product.
In case of fire use CO₂ dry chemical or foam extinguisher.
Protective clothing:
Wear rubber gloves and safety glasses when using this product
First aid:
If exposed to this product get medical attention.
If on skin remove contaminated clothing and rinse skin with water.
Storage:
Store locked up, in a well-ventilated place and keep containers cool.
Disposal:
Do not allow this product to enter drains or waterways
Dispose of this material and its container as hazardous waste

PFH Paint Manufacturing Company, 123 Sunshine Place, Christchurch New Zealand
Ph (03) 789 1254
GRAMOXONE® 250

**METHOD OF USE**

Active ingredient: **GRAMOXONE** contains 250 g/hl PARATHION in the 1% to 3% cutting solution.

**Precautions:** Use only in clover seed fields, Ukraine, Kentucky, Indiana, Ohio, Louisiana, Illinois, Wisconsin, and the control of Barley grass.

** PRECAUTIONS:**

- Store in original container, tightly closed, away from foodstuffs and under lock and key.
- Avoid contact with seeds, fertilisers and other pesticides.
- Do NOT use GRAMOXONE in the middle of the day.
- When handling the concentrate wear full protective clothing such as overall, gloves, and balaclava.
- Wash splashproof containers with skin brushes immediately.
- When spraying wear overalls and gloves.
- Avoid contact with skin, eyes and inhalation of spray mist.
- Do NOT eat, drink or smoke while using.
- Wash hands and face before eating, drinking or smoking and after work.
- Wash protective clothing after use.
- Apply with well maintained and calibrated spray equipment.
- Record all work, MIST or keep.
- Application, storage and record keeping should be as described in the Management of Agricultural NCCAs.
- Do NOT carry in a passenger service vehicle.
- Avoid contamination of any water supply with residual or empty container.

**SYMPTOMS OF POISONING:**

An early symptom of poisoning may be vomiting, although other symptoms include stomach pain, nausea and vomiting of the mouth. In the event of any of the above symptoms, the first aid treatment prescribed below must be followed in full.

**FIRST AID:**

If poisoning is suspected rush to an Accident and Emergency Department of the nearest hospital after asking for directions. Meanwhile, do not induce vomiting, do not attempt to make the victim swallow. Use ventilation or proper respiratory valves. Wash splashproof container from the skin immediately. For skin intact, wash the affected areas of skin. Do NOT scratch the skin. For eye wash, flush with running water for 15 minutes. Have medical attention.
DG and GHS Classification System

Dangerous Goods Package Labels

FOLIDOL M50 5 LITRE TRANSPORT LABEL

FOLIDOL® M50

TOXIC 6.1

FLAMMABLE LIQUID

MARINE POLLUTANT 3

ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE, (50% PARATHION-METHYLOXYLENE) PACKING GROUP II HAZCHEM CODE 3 W E

IN A TRANSPORT EMERGENCY DIAL 111 POLICE OR FIRE BRIGADE

UN 3017

Bayer New Zealand Limited
Emergency contact
0800 CHEMCALL or 0800 243622
New Zealand wide 24 hours

BAYER NEW ZEALAND LIMITED

END OF DOCUMENT
Substances having two or more hazards above the DG Transport threshold are identified in UN DG List as:

• Primary Class or Division; and
• Subsidiary Risk.
DG and GHS Classification System

Subsidiary Risk Labels

All class labels must display the Class number regardless if it is the Primary or Secondary risk.

Example:
UN No.1072 OXYGEN COMPRESSED
Primary Risk 2.2  Subsidiary Risk 5.1
Packaged DG exceeding 4,000 kg assigned one UN number **must** display the UN Number.

or
DG and GHS Classification System

Marine Pollutant Mark

Cargo Transport Units containing marine pollutants **must** clearly display the marine pollutant mark.
Ecotoxic mark **must** be displayed on all containers of Environmentally Hazardous substances UN Nos. 3077 and 3082.

or

UN Class 9 label must also be displayed
Placard Placement on VEHICLES

On LAND – one each side, on diagonally opposite corners.

At SEA – one each end.
## DG and GHS Classification System

### CHLORINE

<table>
<thead>
<tr>
<th>HAZCHEM</th>
<th>2XE</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN No.</td>
<td>1017</td>
</tr>
</tbody>
</table>

**In Emergency**

<table>
<thead>
<tr>
<th>Dial</th>
<th>ORICA CHEMNET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aust 000</td>
<td>24 Hour Emergency Advice Freephone</td>
</tr>
<tr>
<td>NZ 111</td>
<td>0800 734 607</td>
</tr>
</tbody>
</table>
DG and GHS Classification System

Packaging Requirements

- All packaging containing chemicals must be fit for transport and storage.

- All packaging material must not be able to contaminate or react with the contents.
DG and GHS Classification System

Packaging

• Bulk Containers.
  ➢ Cargo Transport Units.
  ➢ IBCs.
  ➢ Drums.

• Consumer Products.
### DG and GHS Classification System

#### Mandatory UN Certification Mark

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1A1/Y1.6/250/96/USA/VL</td>
<td>1: Drum, A: Steel, 1: Type of Drum - fixed head, Y: Suitable for PG II or III substances, 1.6: Relative density, 250: Hydraulic test pressure, 96: Year of manufacture, USA: Country of certification, VL: Identification</td>
</tr>
</tbody>
</table>
UN Certification Mark
Plastic Drum
DG and GHS Classification System

Packaging

• Type tested.
• Certified.
• Validity.
• UN Packaging Symbol.

X  Packing Group I, II and III
Y  Packing Group II and III
Z  Packing Group III
DG and GHS Classification System

Acceptance for Transport

All DG packages **must** have the following markings:

- Proper Shipping Name.
- Class (diamond label).
- UN Number.
- Marine Pollutant triangle (if required).
- UN Packing Symbol.
- Name of Manufacturer or Sender.
- Name of Receiver.
DG and GHS Classification System

Packaging

Some of the more obvious things to look out for:

1. Leaks

2. Dampness and/or stains

3. Fumes or smells

4. Protective caps on cylinders etc.

5. The outer package is strong enough, i.e. fit for purpose
   - Glass products suitably protected.
   - Drums and canisters have secure lids/fittings.
   - Signs of rust, gouging, etc.
   - Valid certification.
DG and GHS Classification System

Package Labelling
The three checks that **must** be made are:

1. **Address**
   - John Smith
   - 49 Gregor St.
   - Timbuktu

   Addresses MUST show street address
   (NO Post Office Boxes)

2. **Placement of Class Labels**
   - on drums, canisters etc on one side and TOP
   - On boxes and pallets etc on opposite sides

3. **Product Identification**
   - Class label, and subsidiary risk label if appropriate
   - Proper shipping name or technical name
   - UN No.
   - Manufacturer’s name
DG and GHS Classification System

Is this consignment compliant?
DG and GHS Classification System

Compliant?
DG and GHS Classification System

Consignment Documentation

All DG must be accompanied by a DG Declaration highlighting Emergency Response information.
UN Certification Mark

DG and GHS Classification System

### Hazardous Substances/Dangerous Goods Declaration and Packing Declaration RFDG27

- **Proper shipping name**: EXTRACTS FLAVOURING LIQUID “DG LIMITED QUANTITIES”
- **Common name**: Lemon Essence
- **Number & kind of packages**: 24 x 2 litre Bottles in 2 cartons
- **Gross weight**: 42 kg
- **Marine pollutant**: X

### Shippers
- **Name & Address**: Ace Food Preservatives, 16 Turner Cres, Upper Hutt, (04) 546 7778

### Receivers
- **Name & Address**: Smith’s Bakery, Main St, Feenisk, (03) 332 4567

### Dangerous Goods Declaration
- **Carrier**: B. Good Warehouse Mgr, Upper Hutt

### The section below is to be completed by the person packing the transport unit and/or the carrier

- **Cargo Transport Unit**: wagon no. LU1234567, box 1254
- **Position of dangerous goods in unit**: Mark with X
- **Handbrake**: XX

### Packing Declaration
- **Vehicle/container ID-No.**: LU1234567
- **Vehicle/container ID-No.**: 7 CSRAG

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For NZ Fire Brigade and Police Dial 111

25/03/02
DG Segregation
DG and GHS Classification System

Emergency Response
### Hazardous Substances/Dangerous Goods Declaration and Packing Declaration RFDG27

<table>
<thead>
<tr>
<th>Proper shipping name</th>
<th>Class</th>
<th>UN number</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTRACTS FLAVOURING LIQUID “DG LIMITED QUANTITIES”</td>
<td>4</td>
<td>1197</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Common name</th>
<th>Subsidiary risk</th>
<th>Hazchem code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lemon Essence</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number &amp; kind of packages</th>
<th>Packaging group</th>
<th>Flash point</th>
<th>Marine pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 x 2 litre Bottles in 2 cartons</td>
<td>III</td>
<td>52 C</td>
<td>X</td>
</tr>
<tr>
<td>42 kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Packaging Information

- **Shipper/Consignor**: Ace Food Preservatives, 16 Turner Cres, Upper Hutt, (04) 546 7778, Phone: (04) 546 7778
- **Receiver/Consignee**: Smith’s Bakery, Main St, Feekins, (03) 332 4567
- **Dangerous Goods Declaration**: By B. Good, Warehouse Mgr, Upper Hutt, 23 Mar 02
- **After hours emergency contact phone**: (021) 333 663

### Transport Information

- **Cargo Transport Unit Type of containment**: Open, Mark with X
- **Position of dangerous goods in unit**: XX
- **Handbrake**: SP

### Packing Declaration

- **Name**: T. Cruze, LFO, TL Wgt
- **Date Signature**: 25/3/02

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For NZ Fire Brigade and Police Dial 111
DG and GHS Classification System

UNEP Awareness and Preparedness for Emergencies at Local Level (APELL)
Managing a Chemical Emergency
DG and GHS Classification System

Improving Chemical Management

✓ Implement best practice.
✓ Continuous Improvement.
✓ Role models.
DG and GHS Classification System

Capacity Building

• Legislation.
• Education.
• Training.
• Performance monitoring.
UNEP and ICCA chemical safety initiatives have common goals:

- Ethical commitment to protect people and our environment.
- Safe operational environments.
- Facilitate safe chemical management particularly in SMEs.
- Effectively manage chemical incidents.
- Monitor and report performance.
- Frank and timely communication with public.
Safe Chemical Management:
A ‘banquet’ from which you choose the healthy food you ‘need’, as well as ‘like’!
DG and GHS Classification System

- Provides proven, comprehensive, cost-effective chemical management system.
- Access to world-class advice.
- Assistance at government, industry and company level.
- Cost-effective solutions.
- Focus on SMEs.
- Continuous Improvement.
- Benchmark performance against 65 countries.
Who is our next local success story?
DG and GHS Classification System