U. S. COAST GUARD
APPROVED DISTRESS
SIGNALING EQUIPMENT
CATALOG NO. 101
INTERNATIONAL
The most COMPLETE line of U.S. COAST GUARD APPROVED DISTRESS SIGNALING EQUIPMENT for...

THIS CATALOG CONTAINS DESCRIPTIVE LITERATURE ON:

3. Water Proof Copper Container [Holds 12 of Above Hand Signals] Cat. No. CG-3244

International blankets the Pleasure Boat field with a "Kilgore" Quality Distress Signal Kit for every Boat from Outboard to Yacht. Available are Inexpensive PolyBagged Kits for Small Boats to Deluxe Metal Cased Pistol Kits for larger Craft. Write for Catalog.

SHIPS LIFEBOATS LIFERAFTS

INTERNATIONAL
No. 52
MARINE DISTRESS SIGNAL KIT
FOR LIFEBOATS AND OTHER MARINE CRAFT

APPROVED BY U. S. COAST GUARD
Brilliant parachute suspended flare reaches an altitude of 200 feet and burns with 30,000 candle power giving maximum visibility for many miles. White flares provide extreme visibility and are useful in cases of a man over board, entering a strange harbor, locating a buoy, etc.
12 red flares are supplied with No. 52 kit unless your order specifies assorted colors.
No. 52 complete distress signal kit consists of: 1 approved 37 MM signal pistol with lanyard; 12 approved red parachute flares No. 3221; 1 approved water tight metal container; 1 card of instructions —

CATALOG NO. ORDERING CODE CASE PACK WT.
P-52-GR 3220 1 Kit 20 lbs.

To order pistol only specify:
Cat. No. G-52-R
Order Code 3224, Packed 1 to a shipper, wt. 5 lbs.
Individual flares only can be ordered from stock in any quantities. See chart below:

FLARE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Flare No.</th>
<th>Color</th>
<th>Altitude Feet</th>
<th>Min. Burning Time</th>
<th>Candle Power</th>
<th>Case Pack</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-52-KR</td>
<td>Red</td>
<td>200</td>
<td>10 Sec.</td>
<td>30,000</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>G-52-GS</td>
<td>Green</td>
<td>200</td>
<td>10 Sec.</td>
<td>30,000</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>G-52-W</td>
<td>White</td>
<td>200</td>
<td>10 Sec.</td>
<td>30,000</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>G-52-O</td>
<td>Orange</td>
<td>200</td>
<td>10 Sec.</td>
<td>30,000</td>
<td>12</td>
<td>6</td>
</tr>
</tbody>
</table>

HARVELL-KILGORE CORP.
INTERNATIONAL FLARE-SIGNAL DIVISION
SALES OFFICE & PLANT
TOOKE, TENNESSEE

PHONE 901-68-3233
PRINTED IN U.S.A.
IDEAL FOR YACHTSMEN, BOATING ENTHUSIASTS, FISHERMEN, PRIVATE & COMMERCIAL PILOTS

INTERNATIONAL HAND DISTRESS SIGNALS

U. S. COAST GUARD APPROVED

Light in weight and brilliant in performance makes this the most effective hand signal available. Exceptionally bright colored flame of 500 C. P. can be seen for miles. D-50-10 orange signal gives off dense cloud of heavy orange smoke giving miles of daytime visibility.

Each signal is individually chemically treated to make it impervious to moisture and for double protection is individually packaged in water proof poly bag.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Ordering Code</th>
<th>Color</th>
<th>Candy Power</th>
<th>Burning Time</th>
<th>Case Pack</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-2-1R</td>
<td>3233</td>
<td>Red</td>
<td>500</td>
<td>120 Sec.</td>
<td>72</td>
<td>30 lbs.</td>
</tr>
<tr>
<td>D-3-1W</td>
<td>3246</td>
<td>White</td>
<td>500</td>
<td></td>
<td>72</td>
<td>6 lbs.</td>
</tr>
<tr>
<td>D-1-1R</td>
<td>3238</td>
<td>Blue</td>
<td>500</td>
<td>60</td>
<td>12</td>
<td>6 lbs.</td>
</tr>
<tr>
<td>D-50-10</td>
<td>3234</td>
<td>Orange</td>
<td>Smoke</td>
<td>80</td>
<td>72</td>
<td>2 lbs.</td>
</tr>
</tbody>
</table>

COPPER CONTAINER

HOLDS 12 HAND DISTRESS SIGNALS

COPPER CONTAINER HOLDS 12 HAND DISTRESS SIGNALS, U. S. COAST GUARD Approved made of heavy copper shot with fully soldered joints and heavy cast cover with handle and rubber gasket to insure complete waterproof storage. Catalog No. 3246.

APPROVED BY U. S. COAST GUARD

HARVELL-KILGORE CORP.

INTERNATIONAL FLARE-SIGNAL DIVISION

SALES OFFICE & PLANT

TOONE, TENNESSEE

PHONE 901-658-5234

HAND-HELD ROCKET-PROPELLED PARACHUTE RED FLARE

DISTRESS SIGNAL

No Flare Pistol Required!

In ditching operations, forced landings and shipwrecks, flares are often separated from flare pistols and become useless. Here's the simple answer to that problem...a new distress signal self-contained in its own launcher...no pistol required!

Each signal is packed as a complete unit in an individual water tight container always ready for instant use. When necessary to fire a flare, just remove end covers on the disposable launcher, hold firmly in upright position and pull trigger ring at the bottom of the launcher.

The signal projectile when fired vertically attains an altitude of 500 feet minimum and remains well under the average overcast. The pyrotechnic candle, suspended by parachute, then develops a 20,000 candle power light for a minimum of 30 seconds.

HARVELL-KILGORE CORP.

TOONE, TENNESSEE

PHONE 901-658-5231

INTERNATIONAL FLARE SIGNAL DIVISION
HAND-HELD, ROCKET-PROPELLED
PARACHUTE RED FLARE
DISTRESS SIGNAL

- COLOR—Vivid Red
- PACKAGED—12 to a carton
- PARACHUTE DESCENT—not more than 15 feet per second in still air.

The launcher serves the purpose of a pistol. The firing mechanism is attached to launcher. Trigger is always in the safe position until the operator is ready to fire. When operator desires to use signal, caps or closures are removed from each end of launcher. Trigger and cover is removed last. Grasp launcher in either hand and with arm horizontal to the ground, signal pointing vertically upwards with opening end pointing skyward. Grasp ring attached to string which is in turn fastened to the firing mechanism. When ready to fire, pull the string downward. This cocks the trigger and simultaneously fires the signal.

First expulsion carries the rocket skyward. The second expulsion in flight expels the candle and parachute core. The third expulsion ignites and expels the candle, and the parachute opens due to resistance to this force.

HARVELL-KILGORE CORP.
TOONE, TENN.
PHONE 901-658-5231

For daytime, one end ejects a dense cloud of high visibility ORANGE SMOKE vividly seen for miles.

For night time, the opposite end burns a brilliant RED FLARE visible for many miles.

Thousands of business firms and civilians need the positive protection of this low cost never-failing day and night emergency distress signal. It combines two powerful high-visibility signals in one compact watertight container ready for instant use—day or night. Cannot be extinguished by wind or water.
Compact Package Of Double Protection

Here is the answer to the need for a compact, positive distress signal that civilians can instantly use in the daytime or at night time. This U.S.C.G. Approved (#160.023) Signal has been wartime proved and accepted the world over as the standard distress signal by aircraft and ships. DAYNITE has every desired feature to assure a dependable means of signalling for help at any instant around the clock. Each end of the container is independently identified by color and ignited by a separate pull-ring fuse that never fails — sets off a powerful signal that is visible as far as the eye can see.

For daytime — one end emits a vivid cloud of orange smoke that is easy to see for miles and miles.

For nighttime — the other end is a blinding bright red flare beacon easily seen for miles.

- Compact, hermetically sealed steel container is only 5½" x 1¾". Weighs less than 7 ounces.
- Easily held in the hand — keeps cool in the hand until spent, thanks to the double wall protection.
- Absolutely watertight.
- To ignite—simply pull ring which breaks watertight seal and automatically ignites desired signal.
- When ignited—the signal will even burn under water ...can't be extinguished by wind or waves.
- One end can be doused when spent without affecting the opposite end operation.
- Service life is 3 years from date stamped on label.

Stock And Push This Low Cost Safety "Must" For Thousands Of Uses

A "must" for the lifeboats of every merchant vessel at sea. Puts out a steady cloud of bright orange smoke highly visible in even dirtiest weather. Emits smoke for minimum of 4 minutes, maximum of 5 minutes ... can be seen in clear weather with the naked eye by a spotter in an aircraft 5 miles away flying at 5,000 feet. Discharges smoke at a constant rate, operates efficiently even in heavy seas.

Watertight, corrosion-resistant container protects smoke-generating chemicals. Combustible contents won't deteriorate during long storage, or when subject to frigid or tropical climates. Proof-proof igniter system fires in all weather. Packed two canisters to the carton.

Surely canisters may be easily stowed in lifeboats for best possible daytime distress signal. To operate, remove canister top, pull igniter ring and throw into sea well to the leeward.
FLOATING ORANGE SMOKE DISTRESS SIGNAL

CONTAINERS Cylindrical canister 7" in diameter, 10" in length. Corrosion-resistant to salt water and spray. All seams hook-jointed and soldered. Entire container covered with two coats of gray waterproof paint. Special air chamber keeps canister afloat even in heavy seas.

IGNITER MECHANISM Entire system protected with easily removable watertight cover of corrosion-resistant material. Fires in the most unfavorable weather. Is in no way dangerous to operator.

SMOKE-PRODUCING COMPOSITION Chemicals will not deteriorate when subjected to long storage or in frigid or tropical climate or both. Emits smoke at a uniform rate in rough as well as smooth water.

Develops smoke for a minimum of 4 minutes, maximum of 5 minutes. Emits smoke even when under water. Marking—operating instructions plainly marked on canister.

KILGORE, INC.
International Flare Signal Division
TOONE, TENNESSEE

IGNITER
Screw Cap Corrosion-resistant.

PROTECTIVE HOOD
Keeps combustible material safe even in heavy seas.

PULL IGNITER RING
Fault-proof ignition system.

AIR SPACE
Necessary to make canister float.

COMBUSTIBLE MATERIAL
Ignores under any conditions.

BALLAST
Fire clay to maintain center of gravity and keep canister floating upright.

KILGORE TOWLINE ROCKET APPLIANCE & EQUIPMENT

The Kilgore Towline Rocket Appliance has been approved by the U. S. Coast Guard — under Certificate of Approval 160.040/1/0. Its convenience, ease and speed of assembly, compactness and one man operation are outstanding advantages.

It carries a regular 7/32" to 9/32" diam. manila shot line from 300 to 350 yards using the regular rocket harness — or from 275 to 325 yards using the floating type harness. A 1/2" diam. line can be shot approximately 200 yards.

Appliance, ready for firing, weighs only 26 lbs. In operation, one man can assemble the unit for firing in a matter of minutes. It is fired from a hand-held, standing position (no stanchions required). Large diameter flash plate provides full protection. Line tub or faking box (not furnished) is placed about six feet in front with a fair lead of shot line. Target is sighted through window in flash plate — then capilliance is elevated between 25' and 30' (depending on wind conditions) and the rocket fired. Rocket assembly is propelled immediately after pulling trigger.

In addition to the 4 regular harnesses furnished, 2 floating harnesses are included. Rocket is easily changed from one type harness to the other.

Each unit complete is tightly and compactly stored, as shown at right, within a 25 gal. size steel drum. Drum has water-proof, rubber gasket head.

COMMERCIAL USES

In addition to distress use, this unit is ideal for all types of line throwing. It can be used to great advantage by telephone, telegraph, electric and construction companies when straining wires across gorges or over streams. In one fast operation — the rocket will span obstacles with a towline to which the service lines can be attached and quickly pulled across.

SEE PARTS LIST AND SPECIFICATIONS ON OTHER SIDE
HARVELL-KILGORE CORPORATION

INTE FLARE-SIGNAL DIVISION

Office Toon, Tenn. - Phone 901-658-5231

PRICE LIST

U.S. COAST GUARD APPROVED MARINE SIGNALING EQUIPMENT

EFFECTIVE JANUARY 1, 1964

CATALOG NO. DESCRIPTION

CASH PACK LBS. PER CASE LAST PRICE

CG-3200 P-52-GR—No. 52 Complete Unit
1 20 $168.00 each

CG-3221 P-52-PR—57 m/m Parachute Marine Signal—Red
1 dozen 6 $98.00 each

CG-3224 G-53-K—No. 52 Pistol
1 5 $46.00 each

CG-3225 G-53-C—No. 52 Watertight Container
1 8 $33.00 each

CG-3241 K-6—Floating Orange Smoke (2 in a carton)
12 10 $16.00 each

CG-3242 K-600—Hand Held Rocket-Propelled Parachute Rod Flame
12 15 $28.00 each

CG-3243 K-62—Container (Holds 12 only K-366)
1 6 $15.00 each

CG-3261 D-2-IR—International Proietion Ship Signal—Red
6 dozen 30 $16.20 each

CG-3264 D-6-IO—International Proietion Ship Signal—Orange Smoke
6 dozen 30 $16.30 each

CG-3266 GR-52-C—Cartridges
1 6 $20.00 each

CG-3266 Mk 13—Mod 0—Day-Nite Signal—Metal Case
25 12 $75.00 each

CG-3267 Mk 13—Mod 0—Day-Nite Signal (4 units—8 signals)
1 2 $11.00 each

ROCKET LINE THROWING APPLIANCE

CATALOG NO. DESCRIPTION

CASH PACK LBS. PER CASE LAST PRICE

CG-3260 GR-52-CK—Complete Line Throwing Rocket Appliance with accessories and shipping/storage container
1 12 128 $500.00 each

CG-3261 4 only GR-52-TL—Rocket with standard harness
1 12 $150.00 each

CG-3262 2 only KM-1907-A—Harness, water buoyant
1 10 $94.00 each

CG-3263 1 only KM-1911-L—Appliance (assembly of pistol, adapter, flashplate, & barrel)
1 35 $230.00 each

CG-3264 1 only KM-1901-0—Kit (consists of following):

3214 1 only K-6—Container
1 8 $28.00 each

325 1 only K-325—Container
1 5 $8.30 each

325 1 only KM-1921-CA—Brush and Handle
1 1 $7.50 each

3266 1 only KM-1911-0B—Pistol Can and Oil
1 1 $1.00 each

3267 13 only KM-1911-0C—Wiping Patches (8x8)
12 2 $3.70 each

3268 6 only GR-52-C—Cartridges
6 1 $6.60 each

3269 1 only KM-1921-CD—Friction Tape
1 1 $1.50 each

CG-3270 Drum & Furniture
1 20 $46.00 each

CG-3270 Harness only
1 4 $10.00 each

CG-3271 Rocket only
1 10 $25.00 each

GENERAL NOTES

1. Prefix "CG" denotes Coast Guard Approved—Date of Coast Guard Acceptance stamped on item—Approved Life Three (3) Years.
2. All Pistol and Hand Projector Items listed are exempt from Fire Arms License requirements.
3. Shipment of Flame items generally restricted to truck or rail express.
4. All prices subject to change without notice.

TERMS 1 1/2% 10 DAYS—NET 30—ALL PRICES F.O.B. TOONE, TENN.
Specialists In Military Pyrotechnics For Half A Century

During World War I and II the requirements for military pyrotechnics increased at a more rapid rate than productive capacity. Technical advances in military equipment and industrial requirements for improved items in this field thrust a challenge on the pyrotechnical industry. Kilgore's research laboratories, staffed with the best pyrotechnicians of the nation, met the challenge with the ability to adjust their designs to meet new conditions.

Two lines of development are illustrated to show how Kilgore met this challenge from its infancy to the present day in flares and smoke signals for land, sea and air use.

In flares, the Very Signal was developed to a system of flares that furnish over a million candle power light intensity. A line of drift signals or marine markers was developed to emit smoke and light for a period in excess of one hour.

This illustrates Kilgore's capacity to meet new needs and conditions with pyrotechnic devices of proven quality.

The accompanying illustrations represent just a few of the numerous items developed for peace time needs and used in periods of national emergency.

This challenge has been met for over fifty years with the skill, background and technical ability of our personnel. An eminent position in the research and development of land, aviation and marine signals has been reached and is currently recognized by all branches of the military services and the U. S. Coast Guard.