

U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

SPECIFICATION

KITS, FIRST AID

This amendment forms part of Forest Service Specification 6170-6G, dated September 1995.

PAGE 1

2.1.1: Under federal specifications, delete "U-P-401 - Tape, Adhesive, Surgical".

PAGE 7

3.5.2.3: Delete entire paragraph and substitute:

"Mouth-to-mouth barrier. The mouth-to-mouth barrier shall be a medical device for CPR use listed with the FDA and have current 501(k) number. The barrier shall be of single unit construction and one of two types: (1) It shall have a 4-1/2 by 4-1/2 inch minimum clear vinyl barrier with an attached breathing tube/bite block measuring 1-1/2 inches  $\pm 1/16$  inch, a positive anti-reflux valve, and a barrier that prevents blockage of the valve by a victim's tongue; or (2) it shall have a 5-1/2 by 5-1/2 inch minimum clear vinyl barrier with a 1-1/4 inch minimum viral bacterial filter located in the center of the barrier (see 6.7). Each type shall provide protection from direct contact with bodily fluids. Each mouth-to-mouth barrier shall be packaged in a sealed plastic envelope together with printed instructions."

PAGE 8

3.5.3.2: Delete second sentence and substitute:

"Each bandage shall measure 3 by 1-1/2 inches  $\pm 1/16$  inch."

3.5.3.5: Delete third and fourth sentences and substitute:

"This bandage shall come with two safety pins with a minimum length of 1 inch each. 'TRIANGULAR BANDAGE INCLUDING SAFETY PINS' shall be printed on the plastic envelope or on a label included in or affixed to the plastic envelope."

3.5.5: Delete first sentence without replacement.

3.5.7: Delete entire paragraph and substitute:

"Cold pack. The cold pack shall consist of a system of plastic bags. The innermost bag shall be breakable and contain as a minimum 45 grams of water. The water bag shall be contained in a bag a minimum 3 mil thick that also contains as a minimum 45 grams of ammonium nitrate. The system shall be sealed with a watertight seal to ensure against leakage. Use instructions and warnings shall be printed on the outer bag. The cold pack shall be packaged in a size 3 paperboard box (see 3.3). "INSTANT COLD PACK" shall appear on both top panel and end panel of box."

3.5.10: Delete entire paragraph and substitute:

"Calamine lotion. The calamine lotion shall meet the requirements of the United States Pharmacopeia (USP). All ingredients shall be of a pharmaceutical grade and shall be free from defects that detract from its appearance or impair its serviceability. The calamine lotion, USP, shall be packaged in a one-half ounce minimum leakproof squeeze bottle. Production information may be screen printed on the container or printed on a paper label that is affixed to the container (see 3.3.1). Shrink wrapping for a perforated tamper evident seal is required (3.3.2). The calamine lotion shall be packed as specified in 3.5.8."

3.5.11: Delete in its entirety and substitute:

"Insect sting medication unit. The insect sting medication unit shall consist of: (1) a ready-to-use 1/2 fluid ounce (15 ml) aerosol dispenser of epinephrine (5.5 mg/ml minimum) delivering a 0.22 mg (minimum) epinephrine dose per inhalation (see 6.8); and (2) twenty 4-mg tablets of chlorpheniramine maleate. The tablets may be blister packed or packaged individually in either paper or plastic packets. Expiration dating is required on both the epinephrine inhaler and the tablet packaging. The inhaler shall have a minimum of 18 months remaining when received from the contractor and the tablets, 24 months. The inhaler and tablets shall be packed as a unit in a size 3 paperboard box (see 3.3); 'INSECT STING MEDICATION' shall be printed on the top panel of the box. 'Insect Sting Medication', a components list, and a unit expiration date that is the expiration date of the component that will expire first (either inhaler or tablets) shall appear on box end panel. Instructions illustrating how to assemble and use the inhaler packaged in the unit box shall appear on the back panel of the unit container. Insect sting instructions (see 3.5.11.1), as illustrated by figure 3, shall be packed in the unit box."

3.5.19: Delete third sentence and substitute:

"The following items require expiration dating: antiseptic kit, povidone iodine, povidone iodine swabs, aspirin tablets, acetaminophen tablets, eye wash solution, insect medication unit, epinephrine inhaler, and chlorpheniramine maleate tablets."

Add new paragraphs:

"3.5.21 Splint. The splint shall be constructed of malleable, radiolucent aluminum having rounded corners and a polyvinyl foam (closed pore) coating. The splint shall measure 4-1/4 inches wide by 36 inches long  $\pm 1$  inch in either dimension and weigh 4 ounces  $\pm 1$  ounce. It shall be capable of splinting injuries to the arm, wrist, leg, ankle, and neck. The splint shall come from the manufacturer folded flat and sealed in a polybag, measuring no more than 4-1/4 inches by 9-1/2 inches by 1 inch. Use instructions shall be included. Color shall be orange/blue (see 6.7)."

"3.5.22 Blanket. The blanket shall be constructed from an aluminized polyester film. When unfolded it shall measure a 56 by 84 inches  $\pm 1$  inch in either dimension. It shall be compactly folded (approximately 2 by 4 by 1-1/2 inches) and sealed in a polybag. Because the blanket shall be used in emergency or rescue situations to prevent post-accident shock or hypothermia, it shall be a Food and Drug Administration registered medical device. The color shall be silver/silver (see 6.7)."

3.6 Kit contents: Add the following information to TABLE IV. Type IV (belt) kit contents under 'Other Items':

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"NOMENCLATURE	QTY	UNIT OF ISSUE	REQUIREMENT PARAGRAPH
Splint	1	1 each	3.5.21
Blanket	1	1 each	3.5.22"

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5.2.1: In the last sentence of paragraph, delete "tamper proof" and substitute "tamper evident".

Add new paragraphs:

"6.7 Sources of supply. A splint meeting the requirements specified in 3.5.21 is the Sam Splint available from the Seaberg Co., Inc., P.O. Box 734, South Beach, OR 97366 (541-867-4726). A blanket meeting the requirements specified in 3.5.22 is the Space brand emergency blanket available from MPI Outdoors, 85 Flagship Dr., Suite D, North Andover, MA 01845 (508-685-2700). A mouth-to-mouth barrier meeting the requirements specified in 3.5.2.3 for the type 2 barrier is the Life Mask available from CFT, Inc., 14602 N. Cave Creek Rd., Phoenix, AZ 85022 (800-331-8844)"

"6.8 Insect sting inhaler dosages. The epinephrine inhaler that is part of the insect sting medication unit (3.5.11) is intended to reduce bronchospasm that accompany acute allergic or anaphylactic reactions to an insect sting. Such reactions are a life-threatening medical emergency, particularly in a field setting where professional medical assistance is unavailable. This fact underscores the importance of delivering a significant amount of medication to the upper respiratory tract quickly to prevent the onset of such reactions. For this reason, the dosage instructions differ significantly from the supplier's recommended dosages, which are intended for treating shortness of breath and wheezing due to bronchial asthma. Such low dosage levels would not prevent an acute allergic reaction or the onset of anaphylactic shock and therefore would endanger the life of the insect sting victim for that reason. The required marking and instructions included in this specification outline a proper course of action where the intended use for the inhalers is to treat an insect sting victim."

Delete existing figure 3 and substitute figure 3 dated May 1997.

Delete existing figure 5 and substitute figure 5 dated May 1997.

Delete existing figure 6 and substitute figure 6 dated May 1997.

## First Aid and Emergency Medical Aid for

# Insect Stings

Bees, Wasps, Hornets,  
and Yellowjackets



### When a person has been stung:

1. Remove the stinger if present (only the honey bee leaves its stinger). Carefully scrape off stinger with a fingernail or knife point. More venom will be squeezed from the stinger if it is picked off with a forceps or fingertips.
2. Cleanse the sting site with antiseptic solution or soap and water to reduce the chance of infection.
3. Apply ice packs or cool compresses to slow absorption of venom and lessen local swelling.
4. Watch for an allergic reaction such as hives; swelling of the face, tongue, or throat; or difficulty breathing. If the person has a history of severe allergic responses to stings, does he/she have a prescribed medication?

### When there is evidence of allergic reaction:

5. Use the aerosol dispenser of epinephrine and the chlorpheniramine maleate tablets if the person experiences an allergic reaction that involves two or more of these symptoms: hives;

swelling of the lips, eyelids, or tongue; tightness in the chest; wheezing; difficulty breathing or swallowing; hoarseness or thickened speech; abdominal pain; nausea; vomiting; dizziness; marked weakness; confusion; or a feeling of impending disaster.

6. Watch for a severe allergic reaction (anaphylactic shock). Symptoms of anaphylactic shock may differ from typical allergic reactions. Within minutes after the sting, the victim experiences apprehension, faintness, flushing followed by pallor, rapid heart beat, weak pulse, and a fall in blood pressure. Collapse, unconsciousness, convulsions, abdominal cramps, and involuntary urination or defecation may occur.

Symptoms of anaphylactic shock and typical allergic reactions may be intermixed. Allergic symptoms may appear after the initial phase of anaphylactic shock has passed. If you are unsure of the symptoms, cause severe allergic reaction or a typical reaction) assume the victim is experiencing a severe allergic reaction and treat as described.

**A person suffering a severe allergic reaction requires immediate medical help!**

7. Maintain the airway. Use CPR and a plastic airway device if needed. Give oxygen (if available) and treat the victim for shock (keep warm and elevate the legs 8 to 12 inches) until a doctor or other medically trained person can administer the treatment of choice—which is epinephrine—by injection (0.3 cc to 0.5 cc for adults, either subcutaneously or intramuscularly).



### Treating Allergic Reactions

The first aid kit contains epinephrine (in aerosol dispenser), and chlorpheniramine maleate tablets. The victim should take both medications if an allergic reaction develops—see Step 5 for symptoms.

The epinephrine aerosol is an effective bronchodilator. The chlorpheniramine maleate tablets are an antihistamine.

- **Epinephrine Aerosol** (shake dispenser well before use):

**Dosage:** Start with two inhalations immediately after the onset of an allergic reaction. May repeat after 3 minutes if significant respiratory difficulty persists, or if there is evidence of anaphylactic shock. Thereafter, one or two inhalations every 20 minutes should be the maximum needed for treatment. However, these subsequent inhalations should be taken only if respiratory distress continues, and there is facial swelling or other signs of anaphylactic shock. Use the least

number of inhalations that produces relief. Rarely will more than four inhalations be required.

**Action:** Epinephrine in aerosol form quickly reaches the lungs where acute asthmatic reactions to insect stings often produce serious effects. It relaxes bronchial spasm and relieves the constricted feeling in the chest. The blood also absorbs some of the epinephrine, further counteracting allergic reactions. Side effects may include shakiness (mild tremor), anxiety, rapid heart rate, and high blood pressure. This drug can be dangerous to individuals with histories of heart disease or stroke. However, it is proper treatment for such individuals if they are experiencing potentially serious allergic reactions.



- **Chlorpheniramine Maleate:**

**Dosage:** After two inhalations of epinephrine aerosol, take one 4-mg tablet. Repeat every 4 hours for at least 24 hours, even if symptoms have abated.

**Action:** Chlorpheniramine maleate helps nullify the effects of histamines released by the body during allergic reactions. It provides relief from and reduces the spread of many allergic symptoms. It is readily absorbed from the intestinal tract into the bloodstream and released into the tissues. This medication may cause drowsiness and dry mouth.

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Figure 3—Instructions for treating insect stings

6170-6G

FIT AID KIT CONTENTS NSN # 6545-00-656-1094 NOMENCLATURE	TYPE III	LOT # XXXXX	EXP. DATE	REPLCMNT EXP. DATE
	QTY UNIT OF ISSUE			
ANTISEPTIC KIT:	2 1 BOX		XX/XX	_____
IODINE BOTTLE	2 1 BOTTLE		XX/XX	_____
IODINE SWAB	8 1 EACH		XX/XX	_____
BODY FLUIDS BARRIER KIT	2 1 BAG		N/A	
BANDAGES:				
WOVEN ADHESIVE	25 1 EACH		N/A	
KNUCKLE	12 1 EACH		N/A	
BUTTERFLY CLOSURE	16 1 EACH		N/A	
ELASTIC	2 1 ROLL		N/A	
TRIANGULAR	2 1 BAG/1 EACH		N/A	
BANDAGE COMPRESS	1 1 BOX/2 EACH		N/A	
ELASTIC SUPPORT	1 1 ROLL		N/A	
COMBINE DRESSING	2 1 EACH		N/A	
OTHER ITEMS:				
LATEX GLOVES	2 1 PAIR		N/A	
ADHESIVE TAPE	3 1 ROLL		N/A	
MOLESKIN	1 1 BAG/4 SHEETS		N/A	
COLD PACK, CHEMICAL	2 1 BOX		N/A	
EYE WASH SOLUTION	1 1 BOTTLE		XX/XX	_____
TINCT. OF GREEN SOAP	1 1 BOTTLE		N/A	
CALAMINE LOTION	1 1 BOTTLE		N/A	
INSECT STING MED UNIT:	1 1 EACH		XX/XX	_____
INSECT STING TABS	20 1 EACH		XX/XX	_____
INSECT STING INHALER	1 1 EACH		XX/XX	_____
ASPIRIN	15 1 PACK/2 TABLETS		XX/XX	_____
ACETAMINOPHEN	15 1 PACK/2 TABLETS		XX/XX	_____
PATIENT INFO. TAG	2 1 EACH		N/A	
FORCEPS	1 1 EACH		N/A	
PARAMEDIC SHEARS	1 1 PAIR		N/A	
LEAD PENCIL	1 1 EACH		N/A	
INSTRUCTIONS:				
MOUTH—TO—MOUTH BARRIER USE	1 1 EACH		N/A	
INSECT STING	1 1 EACH		N/A	
FIRST AID MANUAL	1 1 EACH		N/A	
CONTENTS LIST	1 1 EACH		N/A	

This figure provides formatting information only. Nomenclature, quantities, unit of issue, and expiration dates will vary.

Figure 5 - Sample contents list

May 1997

6170-6G



6545006561094

6545-00-656-1094

KIT, FIRST AID, USFS TYPE III, LG CREW

USFS 6170 - 6G

LHB INDUSTRIES

CONTRACT GS-07F-70470

DATE OF MFG XX/XX

### EXPIRATION LABEL TYPE III

NOMENCLATURE	QTY	UNIT OF ISSUE	EXP. DATE	RPLCMNT EXP. DATE
ANTISEPTIC KIT	2	1 BOX	XXXXXXX	
EYE WASH SOLUTION	1	1 BOTTLE	XXXXXXX	
INSECT STING MED UNIT	1	1 EACH	XXXXXXX	
ASPIRIN	15	1 PACK/2 TABS	XXXXXXX	
ACETAMINOPHEN	15	1 PACK/2 TABS	XXXXXXX	

This figure provides formatting information only. Nomenclature, quantities, unit of issue, and expiration dates will vary.

May 1997

Figure 6 - Sample expiration date label and identification information label