

ALARACT 051/2013

DTG: R 141440Z MAR 13

THIS MESSAGE HAS BEEN TRANSMITTED BY USAITA ON BEHALF OF//DACS-SF//

SUBJECT: SAFETY ALERT ON MASK CONFIDENCE TRAINING (MCT) PROCEDURES USING O-CHLOROBENZYLIDENE MALONONITRILE (CS) CAPSULES.

REF A: DA PAM 350-38, STANDARDS IN TRAINING COMMISSION, CHAPTER 2, PAGE 21, TABLE 2-16, CS CHAMBER/PROTECTIVE MASK, 19 NOV 12.

REF B: DA PAM 385-63, RANGE SAFETY, CHAPTER 13, CHEMICAL AGENTS AND SMOKE, 30 JAN 12.

REF C: TRAINING SUPPORT PACKAGE (TSP), CHEMICAL, BIOLOGICAL, RADIOLOGICAL AND NUCLEAR (CBRN) DEFENSE 2 BT031030/VERSION 6, PRACTICAL EXERCISE SHEET PE 1, TSP, 1 MAR 10.

1. (U) SITUATION. AN EVALUATION OF CONCENTRATION LEVELS OF O-CHLOROBENZYLIDENE MALONONITRILE (CS), COMMONLY REFERRED TO AS "TEAR GAS", DURING MASK CONFIDENCE TRAINING (MCT) AND REVIEW OF REFERENCES A, B, AND C, INDICATE THE NEED TO CLARIFY GUIDANCE FOR THE PROCESS FOR CONDUCTING THIS TRAINING.

2. (U) MISSION. THE PROCEDURES CONTAINED IN THIS ALARACT SUPERCEDE GUIDANCE PUBLISHED IN REFERENCE A AND C ABOVE. ALL UNITS WILL IMMEDIATELY IMPLEMENT AND ENFORCE THE PROCEDURES OUTLINED IN PARAGRAPH 3 WHEN USING CS CAPSULES DURING MCT IN ORDER TO ENSURE APPROPRIATE CONCENTRATION LEVELS OF CS ARE USED DURING THE EXERCISE.

3. (U) EXECUTION.

3.A. (U) CS CAPSULE DISPERSAL.

3.A.1 (U) USE THE FOLLOWING FORMULA TO ESTABLISH AN INITIAL CS TRAINING CONCENTRATION: $\text{NUMBER OF CAPSULES} = \text{ROOM VOLUME IN CUBIC METERS (M3)} \times 0.0107$. USE THE FOLLOWING FORMULA TO CONVERT ROOM VOLUME MEASURED IN CUBIC FEET TO CUBIC METERS: $\text{HEIGHT (FEET)} \times \text{WIDTH (FEET)} \times \text{LENGTH (FEET)} \times 0.02832 \text{ (M3/FT3)} = \text{VOLUME (M3)}$.

3.A.2. (U) ADD ONE CAPSULE FOR EVERY 50 SOLDIERS THAT EXIT THE CHAMBER TO MAINTAIN THE CS TRAINING CONCENTRATION.

3.A.3. (U) CS CAPSULES WILL BE OPENED AND THE RAW POWDER WILL BE DIRECTLY PLACED ONTO THE DISPERSAL PLATFORM. THE CS ENCAPSULATING SHELL AND PACKING PAPER ARE NOT TO BE PLACED ON THE DISPERSAL DEVICE AND WILL BE DISPOSED OF PROPERLY.

3.A.4. (U) THE ONLY APPROVED MEANS OF CS DISPERSAL AUTHORIZED FOR MCT WILL BE THE IMPROVISED CS GENERATOR IN APPENDIX C, FIGURES 1-1 AND 1-2 OF REFERENCE C.

3.B. (U) ADDITIONAL MCT GUIDANCE.

3.B.1 (U) SOLDIERS WILL NOT ENTER A CHARGED CHAMBER WITHOUT DONNING A PROPERLY FIT PROTECTIVE MASK. SOLDIERS WITH A DEFECTIVE MASK OR AN

IMPROPER SEAL WILL BE IMMEDIATELY REMOVED FROM THE CHAMBER AND WILL CORRECT DEFICIENCIES PRIOR TO RE-ENTRY.

3.B.2 (U) INSTRUCTORS/LEADERS WILL ENSURE THAT SOLDIERS ARE NOT EXPOSED MORE THAN 15 SECONDS WHILE REMOVING OR BREAKING THE SEAL ON THEIR PROTECTIVE MASK PER REFERENCE B, PARAGRAPH 13-2a(8).

3.C (U) COORDINATING INSTRUCTIONS. THE ORGANIZATION RESPONSIBLE FOR THE CHAMBER WILL:

3.C.1 (U) CONTACT INSTALLATION SAFETY AND INDUSTRIAL HYGIENE (IH) OFFICES TO MONITOR AND CONDUCT HAZARD ASSESSMENTS OF CS EXPOSURE CONCENTRATIONS ON A SEMIANNUAL BASIS. THE IH EXPOSURE ASSESSMENT WILL BE USED TO VALIDATE THE CS CAPSULE DOSAGE IN PARAGRAPH 3.A. OR ADJUST AS NECESSARY TO MAINTAIN THE APPROPRIATE TRAINING CONCENTRATION LEVEL.

3.C.2 (U) REQUEST GUIDANCE FROM THE LOCAL MILITARY TREATMENT FACILITY (MTF) IH OFFICE ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) (SUCH AS MASKS) FOR CLEANING MCT FACILITIES.

3.C.3 (U) IMPLEMENT PERIODIC CLEANING OF THE GAS CHAMBER TO REDUCE RESIDUAL CS BUILD UP USING WET METHODS WHILE WEARING PPE.

3.C.4 (U) REQUEST GUIDANCE FROM THE LOCAL ENVIRONMENTAL OFFICE TO AVOID POSSIBLE SOIL CONTAMINATION DURING CHAMBER CLEANING.

4. (U) ADMINISTRATION/LOGISTICS.

4.A. (U) U.S. ARMY TRAINING AND DOCTRINE COMMAND (TRADOC) WILL COORDINATE THE REVIEW OF PRACTICAL EXERCISE (PE) SHEET PE 1 OF REFERENCE C WITH THE U.S. ARMY CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR SCHOOL, FORT LEONARD WOOD, MISSOURI AND OTHER TRAINING PUBLICATIONS AND RECOMMEND CHANGES AS APPROPRIATE.

4.B. (U) U.S. ARMY MEDICAL COMMAND WILL ENSURE MTF IH OFFICES CONDUCT HAZARD ASSESSMENTS OF CS EXPOSURE CONCENTRATIONS AT ALL MCT FACILITIES ON A SEMIANNUAL BASIS.

5. (U) COMMAND AND SIGNAL.

5.A. (U) ARMY SAFETY OFFICE POINT OF CONTACT (POC) IS JIM PATTON, (703) 697-1306, JAMES.T.PATTON10.CIV@MAIL.MIL.

5.B. (U) TRADOC SAFETY OFFICE POCS ARE SUSAN M. GEORGE OR RACELI COSIO-OLD, (757) 501-5449/(757) 501-5452, DSN: 501-5449/501-5452, SUSAN.M.GEORGE2.CIV@MAIL.MIL / RACELI.COSIO-OLD.CIV@MAIL.MIL.

5.C. (U) U.S. ARMY PUBLIC HEALTH COMMAND POC IS TERRE NEIL, (410) 436-5475, DSN 584-5475, TERRE.NEIL@US.ARMY.MIL

6. (U) EXPIRATION DATE CANNOT BE DETERMINED.