

FIRING/NONFIRING DATA

For use of this form see USAIC Regulation 350-19; the proponent agency is DPTMS

TO: Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	Date: 15 April 2014 Log #4-27-14 Range: Malone MOUT Title: Enter and Clear Rooms Problem No:
THRU: 198th IN BDE Fort benning, GA. 31905	FROM: 198th IN BDE Fort benning, GA. 31905

SECTION I, TYPE OF TRAINING

a. Live Fire
 b. Non-live Fire
 CP/Controller Coordinates: GA 0270 8882

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
Malone MOUT	Fuse, Hand Grenade Practice Grenade, Hand Smoke	M69/G918 M18/G940, G945, G950, G955	N/A
Malone MOUT	Simulator, Hand Grenade/Artillery Flare, Ground And Aerial	M116A1/L601, M110/L596 L311 (Red Parachute)	N/A
Malone MOUT	Flare, Ground And Aerial	L306 (Red Star), L312 (White ILLUM) L314 (Green ILLUM)	N/A

SECTION III, WEAPONS/AMMUNITION REQUESTED

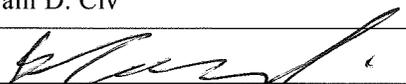
Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
Malone Mout GA 0270 8882	M16A2/A4, M4	5.56mm CCMCK (UTM), Blank	N/A	N/A

SECTION IV, LIVE FIRE EXERCISES Attach the following:

Scenario of training to be conducted:
 Sketch of area:
 Risk Assessment:
 Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:

SECTION V, NON-LIVE FIRE TRAINING

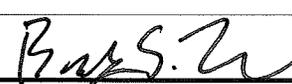
Training area(s) to be occupied:
 Scenario of training to be conducted:
 Sketch of area(s) to be occupied:
 Risk Assessment:

Name/rank of requesting officer: Crouch, Brain D. Civ 	Name/rank of Major Unit S3/Commander: Clayton, Richard J., Maj, S3, 198th IN BDE 
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SECTION VI, FOR RANGE DIVISION USE DATE: 24 Apr 14

TO: 198th IN BDE Fort benning, GA. 31905	FROM: Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
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a. Roadblocks to be closed:	N/A
b. Road(s) to be closed/road barrier locations:	See Photo Enclosure For Locations.
c. Remarks:	
d. This approval expires: <i>Indef</i>	

Chief, Range Division
Directorate of Plans, Training, Mobilization and Security




DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
1 KARKER STREET
FORT BENNING, GEORGIA 31905-5000

ATZB-SO

24 April 2014

MEMORANDUM FOR Commander, 198th IN Bde, Attn: Mr Brian Crouch, Fort Benning, GA 31905

SUBJECT: 198th IN Bde MOUT Operations at McKenna with CCMCK Scenario and RMW Safety Review

1. References.

a. 198th IN Bde MOUT Operations at McKenna with CCMCK Scenario (15 April 2014) and RMW (14 April 2014)

b. Army Regulation 385-10, The Army Safety Program, 27 November 2014.

c. Army Regulation 385-63, Range Safety, 30 January 2012.

d. Department of the Army Pamphlet 40-501, Hearing Conservation Program, 10 December 1998.

e. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010.

f. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010.

gh. Department of the Army Pamphlet 385-63, Range Safety, 30 January 2012

i. ATP 5-19, Risk Management, April 2014

j. MCoE Regulation 350-19, Range and Terrain Regulation, 23 July 2010

2. Document was received on 24 April 2014.

3. Concur w/comment.

a. Scenario, paragraph 4.A.1., pg 2. Casualties are to be taken to an Ambulance Exchange Point for handoff to Paramedics and not taken directly to MACH.

b. Scenario, paragraph 4, pg 2. Standoff distance for all simulators is 35 meters IAW TM 9-1370-207-10 (pg 19). PPE must be utilized when employing this devices.

ATZB-SO

SUBJECT: 198th IN Bde MOUT Operations at McKenna with CCMCK Scenario and RMW Safety Review

c. Scenario, paragraph 4.D.1., pg 4. Two, 10 lbs ABC fire extinguisher are required at the ammo point.

d. RMW, Block 8, pg 1. "Pyrotechnics", standoff distance is 35M between the device and the Soldier.

e. RMW, Block 8, pg 1. "Ammunition Point", two, 10 lbs ABC fire extinguisher are required at the ammo point.

f. RMW. HOT and COLD weather injuries/illness are not addressed in the matrix.

g. RMW. Severe Weather (Storms, lightning Tornadoes) are not addressed. Recommend that you contact the US Air Force Weather Observers/Forecasters on Lawson Army Airfield (706-545-3824/5628) for block weather briefings or significant meteorological phenomena's.

h. RMW, Block 11, pgs 1 & 2. Recommend that you add "individual" to the supervisory matrix. The Soldier is the last opportunity to break the chain and prevent an accident, e.g. heat injuries, firing outside the range fan, negligent discharge, etc.

4. Point of contact is Mr. Michael W. Risher II, MCoE/Fort Benning Safety Office, Comm. (706) 545-8278, Govt. Cell. (706) 604-7249, michael.w.risher.civ@mail.mil

Encl
TM 9-1370-207-10 (pg 19)
AIN 057-12
UTM SDS
UTM PPE
UTM Face Mask


JILL E. CARLSON
Director, MCOE/USAG Safety

DEPARTMENT OF THE ARMY
Headquarters, 198th Brigade
Fort Benning, GA. 31905

AATSH--S3

15 Apr 2014

MEMORANDUM: Malone MOUT Urban Operations and Close Quarters Marksmanship

SUBJECT: Range Scenario

1. **Main Body**

- A. Range is opened through Range Operations (Alpha Base) via radio communication.
- B. User unit detail arrives prior to main body.
- C. Detail conducts range set up in preparation of the arrival of the main body.
- D. Main body arrives and organizes in staging area.
- E. Trainees are given a range orientation/ safety brief.
- F. Safety equipment is checked and issued.
- G. Trainees are instructed on proper room clearing techniques and classes on the four fundamentals of weapon safety.

2. **Sequence of Training:**

A. **Instruction and Rehearsals:**

- 1. Drill sergeants instruct and demonstrate Battle drill #6 Enter and clear a room.
- 2. Dry fire clearing of room (Battle Drill #6).
- 3. AAR
- 4. Blank fire clearing of room (Battle Drill #6).
- 5. AAR

B Man Marking Munitions Live Fire training:

1. Live fire clearing of room using Ultimate Training Munitions man marker rounds (Battle Drill #6).
2. AAR

C. Post live fire training:

1. All troops, weapons, equipment, ammunition and dunnage will be accounted for.
2. Trainees receive a brass and ammo check by their chain of command.
3. Unit must clean all paint from buildings and surrounding areas.

3. Ammunition

- A. All munitions are stored, guarded and segregated by type.
- B. Cadre will control ammunition point.

4. Safety

A. Equipment:

1. Cas Evac vehicle with current PMCS, and strip map to hospital will be on site. CLS bag with current inventory will be present. Stretcher will be present
2. Ice sheets will be present during summer months
3. Personal Protective Equipment will be worn during all dry, blank, and live fire executions
 - a. Ballistic Eye Protection
 - b. Gloves
 - c. IBA
 - d. ACH
 - e. Hearing protection
4. Only Universal Training Munitions training bolts will be installed in weapons during live fire portion of the training on the range. Regular bolts will be used for blank fire; they will be tagged and secured when transitioning to the live fire portion of training.
5. **Communications:** Unit will maintain continuous contact with Range Operations (Alpha Base) at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.
6. **Incident:** When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately call a cease fire and report it to Range Operations (Alpha Base) and the using unit's higher headquarters.

OIC/RSO will take action as directed by Range Operations (Alpha Base). The cease fire will remain in effect until the problem is resolved and cleared through Range Operations (Alpha Base). If the incident results in an injury, the OIC/RSO will use the procedures outlined in the medical paragraph. The following information will be furnished by the OIC/RSO to Range Operations (Alpha Base):

- a. Designation of unit.
- b. Range and location
- c. Type of weapon involved.
- d. Type of ammunition involved.
- e. Brief summary of what happened.
- f. Personnel injuries and extent.
- g. Full Name, SS#, Rank and unit of injured personnel.
- h. Extent of property damage.
- i. Intentions regarding an AR 15-6 investigation.

7. **Medical:** In the event of an accident, injury or illness, the OIC/RSO will immediately call a cease fire then call 911 using the standard 9 Line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, limb or eyesight). MEDEVAC will be IAW MCoE Regulation 350-19 and MCoE 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Range Operations (Alpha Base) will be notified in this event. The cease fire will remain in effect until cleared through Range Operations (Alpha Base).

8. **Weapons/Ammunition Malfunction Reports:** When a malfunction is experienced, the OIC/RSO will suspend all firing and immediately notify Range Operations (Alpha Base). The weapons and all components and ammunition involved will remain in place. The cease fire will remain in effect until cleared through Range Operations (Alpha Base). An investigation is required and will be conducted by the ammunition and weapons inspection personnel and DOL.

9. **Ammo Point:** The ammo point NCO will control the issue and retrieval of all ammunition. All ammunition (blank, CCMCK) will be marked and physically separated within the ammo point (or separate ammo points) and signed by the ammo NCO.

10. **Signals:** All signals to include Emergency cease fire signals will be included in the initial safety briefing. Anyone observing any unsafe act can call for a Cease fire.

B. **Briefings:**

All Soldiers and Cadre will receive a safety brief prior to execution of range to include minimum safe distances, wildlife, and emergencies procedures and Weapons Clearing procedures.

C. Weapons:

1. All weapons will be inspected prior
 - a. To ensure Universal Training Munitions bolt is installed.
 - b. To ensure weapon is clean and dry
 - c. To ensure there is no obstruction to the barrel
2. All weapons will be inspected post training
 - a. To ensure there is no obstruction to the barrel
 - b. To ensure Universal training bolt is removed and standard bolt installed.

D. Ammunition Point

1. Fire extinguishers will be operational and in place
2. Ammunition will be separated by type
3. Only Universal Training Munitions/CCMCK and 5.56mm blank ammunition will be authorized on range.
4. Ammunition point will be secured and guarded at all Times
5. Point of contact is the undersigned, 544-0074.


Richard Clayton
MAJ, IN
Operations Officer

Encl

Appendix I Training Scenario
Image I Malone MOUT Layout

Appendix I Training Scenario

All Buildings can be used to conduct the Man Marking Munitions Live Fire, orientation of 360 degrees will be allowed when the 2nd Armored Division entrance road is blocked to prevent unauthorized entry when live fire is being conducted. Scenarios will vary from unit to unit. Only Soldiers and Cadre with PPE equipment will be allowed in the SDZ during Live Fire.

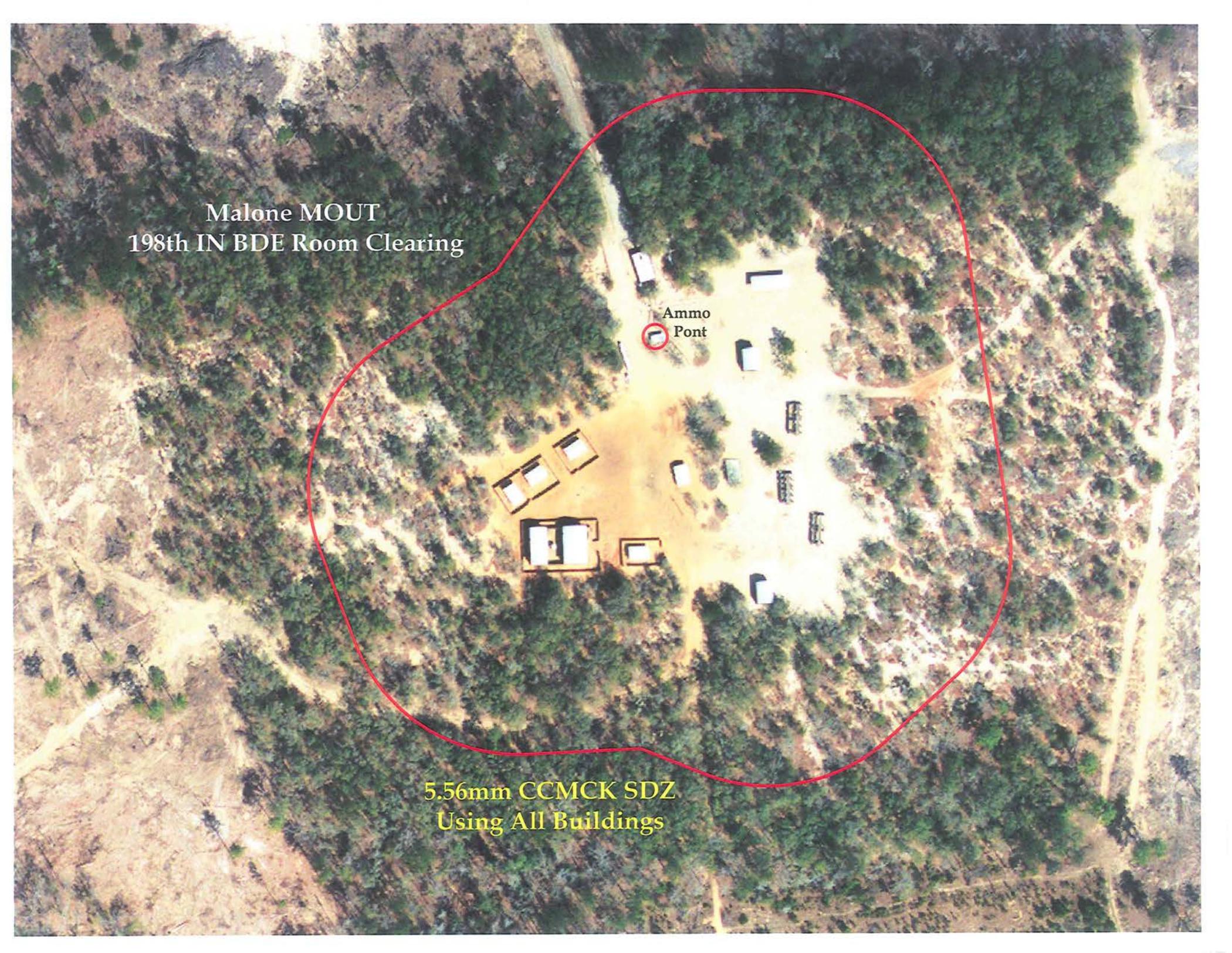
1. Soldiers will be issued UMT/CCMCK rounds at the ammo point.
2. Drill Sergeants will give the soldiers the command to load their weapons.
3. Soldiers will move in tactical formation weapons status red to the designated Live Fire Building accompanied by a lane safety.
4. The Soldiers will execute live fire training enter and clear a room.
5. Soldiers will be cleared prior to moving back to the ammo point for dunnage turn-in.
6. AAR's will be conducted in an area outside of the SDZ.



Malone MOUT
198th IN BDE Room Clearing

Ammo
Pont

5.56mm CCMCK SDZ
Using All Buildings



2nd Armored Division Road

Malone 3

Guard Position

Guard/Barrier Position

Malone MOU
198th IN BDE Room Clearing

Ammo
Pont

5.56mm CCMCK SDZ
Using All Buildings



HAND THROWN SIMULATORS

SECTION (3)

DON'TS

DON'T USE SIMULATOR WITH POWDER LEAKAGE.

DON'T USE SIMULATOR WITH SAFETY FUSE PULLED OUT OF SIMULATOR.

DON'T USE SIMULATOR WITH SAFETY CLIP MISSING OR OUT OF POSITION.

THE ABOVE AND OTHERWISE DEFECTIVE SIMULATORS SHOULD BE FORWARDED TO AUTHORIZED DISPOSAL PERSONNEL

WARNINGS

THE M115A2 GROUND BURST PROJECTILE SIMULATOR IS MORE POWERFUL THAN THE M1 16A1 HAND GRENADE SIMULATOR. IT IS NOT TO BE USED NEAR PERSONNEL DUE TO POTENTIAL HAZARD FROM FRAGMENTATION. **DO NOT THROW M115A2 SIMULATORS WITHIN 35 METERS OF UNPROTECTED PERSONNEL.** WHEN USING THE M1 15A2 SIMULATOR, THE THROWER SHOULD TURN AWAY FROM THE SIMULATOR AND GET INTO A PROTECTIVE STANCE AFTER THROWING. THE SAFETY RADIUS OF THE M1 16A1 SIMULATOR IS 15 METERS.

DO NOT WAIT FOR WHISTLE BEFORE THROWING M 115A2 SIMULATOR.

DO NOT PICK UP ANY SIMULATOR DROPPED AFTER PULL CORD HAS BEEN PULLED.

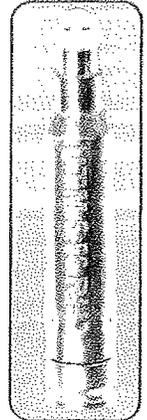
BEFORE FIRING, READ INSTRUCTIONS ON ITEM. WEAR STANDARD ISSUE LEATHER GLOVE ON FIRING HAND.

U
AR 5272-A

Designation: UTM, 5.56mm. Man Marker Rounds (MMR).
Origin: United Kingdom.

SPECIFICATIONS:

Cartridge Case: Zinc Alloy.
Projectile Assembly: 1. Aluminum base cup which holds the 2. Inertia Applicator Ball the 3. Marking Compound and the 4. Plastic (open) Cruciform Dome (plastic color: opaque 'White').
Projectile Mass: 0.45g (6.9 grains).
Marking Compound: Non-toxic, inert, wax based compound. five standard colors.
Notes: 1. Projectiles do NOT have to burst to mark and mark clothing on glancing 'hits'. 2. Wash clothes and UTM Protective Face Mask with domestic detergent.



UTM munitions are powered by primers only.
Primer: Rear: .22 rim-fire Primer (Assault Rifle) Front: Small Pistol Primer
Average Muzzle Velocity at 21°C (70°F): Avg 114m/sec (375fps). Velocity is dependent on weapon variant
Average Muzzle Energy: Avg 2.90 Joules (2.13ft/lbs).
Accuracy at 21°C (70°F): 25mm (1in) at 10m (11yds) extreme spread. MMRs provide the accuracy of duty ammunition with Point of Aim equalling Point of Impact
Optimum Effective Ranges for Training: Approximately 30m (approximately 32yds) or closer.
Maximum Effective Range for Training: Approximately 50m (approximately 55yds).
Maximum Safe Distance (SDZ): 155m (170yds) at 26° elevation.
Operational Temperature Range of Marking Compound: Avg -5°C to 40°C (23°F to 104°F).
Shelf Life: Minimum three years with correct storage.
Recommended Storage: Dry environment. max storage temperature 40°C (104°F).

WARNINGS:

1. THE HOST WEAPON MUST HAVE ITS CHAMBER AND BORE CLEANED AND INSPECTED BEFORE INSTALLATION AND AFTER REMOVAL OF THE UTM CONVERSION. FAILURE TO CLEAN THE CHAMBER AND BORE BEFORE 'LIVE' FIRING COULD RESULT IN DAMAGE TO THE BARREL AND/OR INJURY TO THE OPERATOR. ALWAYS CLEAN TWICE
2. WHENEVER HANDLING UTM MMR CONVERTED FIREARMS, UTM RECOMMENDED AND APPROVED GOGGLES, FACE MASK, AND PROTECTIVE GLOVES ARE MANDATORY.
3. ONE LAYER OF CLOTHING MILITARY IS MANDATORY. UTM STRONGLY RECOMMENDS AT LEAST TWO LAYERS OF LOOSE FITTING CLOTHING DURING TRAINING
4. SHOTS TO BARE SKIN ARE TO BE PROHIBITED.
5. UTM STRONGLY RECOMMENDS THAT GROIN PROTECTION BE WORN DURING FORCE ON FORCE TRAINING.
6. KEEP ALL AMMUNITION OUT OF THE REACH OF CHILDREN.
7. USER MUST CONFIRM THAT THE BORE IS FREE OF OBSTRUCTIONS PRIOR TO FIRING UTM AND LIVE AMMUNITION. A FIXED / SOLID TYPE CLEANING ROD IS EXCELLENT FOR PHYSICAL CONFIRMATION AND PROOF THAT THE BORE IS FREE OF OBSTRUCTIONS.

RECOMMENDATION:

1. Optimum functional reliability with UTM MMR is achieved by starting training exercises with a clean chamber and bore,
2. A fixed/ solid type rod should be used to clean the chamber and bore of the host weapon.



CAUTION

When reconverting back to 'duty' use, insure that the chamber and barrel has been cleaned and inspected before discharging a live round. Failure to ensure that the barrel of the host weapon is free from obstruction could result in damage to the barrel and/or injury to the operator.

Thank you for choosing UTM the world's safest and most accurate training munitions. Because FIREARMS SAFETY IS THE MOST ELEMENT OF ALL WEAPONS TRAINING we have included the below for use of this product.

Training exercises utilizing UTM's Man-Marker, non-lethal training ammunition (NLTA), are conducted most safely when scripted and approved by the appropriate agency supervisor. Training scenarios should be designed to accomplish specific objective(s) that must be closely adhered to.

Due to the dynamic nature of force on force training utilizing UTM's Man-Marker ammunition, all participants must ensure that safety rules and procedures are strictly enforced. Individual officers/participants should be required to 'buddy-up' to verify each other's proper use of UTM's Man-Marking training ammunition and accessories. Safety is everyone's responsibility. "ALWAYS Check Twice"!!

UTM's Man-Marker situational training exercises offer the participants and evaluating instructors the most safe and realistic training experience possible. The use of UTM's Man-Markers for specific task-scenario evaluation is not recommended for unsupervised use in the early stages of student training. This ammunition is best utilized when participants have a thorough knowledge of safety, safe and efficient weapons handling, the fundamentals of marksmanship, personal tactics and the agency's Use of Force Model. UTM's Man-Markers prepare students, teams and units for their ultimate encounter.

UTM's Man-Marker cartridges are designed for professionals. UTM's products are intended only for use in supervised law enforcement and military training conducted in accordance with UTM's guidelines for use and safety recommendations.

SAFETY RESPONSIBILITIES OF ALL PARTICIPANTS

Training Supervisor: It is the responsibility of the on site Training Supervisor (TS) to ensure that the safety rules, UTM Recommended Guidelines For Use, agency policies and procedures are strictly enforced for the safety of all personnel involved in the UTM Man-Marker 'Non-Lethal Training Ammunition' (NLTA) exercises. TS's are responsible for overall site security, notifications and general supervision.

Primary Safety Controller: Prior to the start and during training the Firearms Instructor acting as the Primary Safety Controller (PSC) is responsible for the safety briefing and verifying that all UTM dedicated weapons and UTM ammunition are 'Non-Lethal' training-specific. The PSC ensures that the protective equipment is worn properly prior to the start of training exercise/s. The PSC's initial responsibility is to inspect the training area and require all participants on site to double check, and confirm there are no 'live' duty weapons, 'live' back-up weapons, 'live' ammunitions, edged weapons, live chemical spray, duty impact weapons or such like equipment or weapons in the training area. Once completed, the PSC enforces the 'Buddy Check',

Role Players/Aggressors: it is the responsibility of every Role Player and Aggressor involved in the training scenarios to be familiar with the weapon system being used, wear protective safety equipment, safety clothing and adhere to all safety requirements.

Participants: Everyone is a safety officer and everyone can stop the scenario at any time if they perceive any unsafe situation. Individual participants shall be responsible for ensuring their duty firearms are properly cleaned and the UTM conversion kit is removed. Each participant shall be responsible for "ALWAYS Checking Twice" that their weapons are ready for a working tour of duty following a UTM training exercise(s).

**THINK, TEACH, PRACTICE,
PREACH, DESIGN, and DEMAND SAFETY!
AI " " " " Check Twice!! (ACT) Wf**

RECOMMENDED GUIDELINES FOR USE

- Never use UTM training ammunition without first correctly installing the UTM conversion kit in the firearm. An effort to use UTM Man-Marker ammunition without installing the UTM conversion kit may cause damage to the firearm.
- Whenever handling UTM Man-Marking firearms, eye (goggles), face, throat and hearing protection should be considered as mandatory. Gmin protection is recommended.
- Treat all UTM Man-Marking firearms with the same degree of seriousness and responsibility as a 'live' weapon.
- Only the Primary Safety Controller (PSG) or an approved designee is to be responsible for installing the UTM conversion kits in all firearms to be used in training. This should be done in a room/area that controls access of weapons into and out of the training area. The PSG can mark the firearm and magazine with additional indicators as being UTM modified. Any weapon that has not been inspected and approved by the PSG must be removed from the training area before training begins.
- Only the PSG shall be responsible for removing UTM conversion kit and any additional agency indicators. After removing the UTM conversion kit and indicators the unloaded firearm must be removed immediately from the training area.

Note: CLEAN CHAMBER AND SORE PRIOR TO USE OF AMMUNITION AND IMMEDIATELY FOLLOWING CONVERSION BACK TO LIVE STATUS. FAILURE TO CLEAN THE CHAMBER OR BORE BEFORE 'LIVE' FIRING COULD RESULT IN DAMAGE TO THE BARREL AND/OR INJURY TO THE OPERATOR.
- A designated checkpoint must be established on the perimeter of the training area. The checkpoint is to prevent unauthorized access of personnel and prohibited items into the training area. Before handling and loading, everyone should "ALWAYS Check Twice"!! to ensure there is no 'live' duty ammunition available when training with the UTM system. All participants should be required to perform a self-inspection of gear; magazines, magazine pouches and pockets for prohibited items. Check Twice!!
- UTM Man-Marker cartridges should be loaded into the magazine with the same degree of seriousness and responsibility afforded 'live' ammunition. Verify that you are in fact loading UTM MMR into the magazine. As with all ammunition, inspect for defects while loading your magazine.
- If a firearm, role player, aggressor and or participant have been allowed to leave the training for any reason or any time period, neither shall be allowed back into the training area without the above procedures being completed again by the PSC.
- UTM 5.56mm Man-Marker ammunition is safe when fired point blank. This is not recommended as a good training practice but might happen and is therefore accommodated. For safety, UTM recommends a minimum (approx 311) safety stand-off distance when firing UTM's 5.56mm Man-Marker Round at personnel. POINT BLANK SHOTS ARE TO BE PROHIBITED. SHOTS TO BARE SKIN ARE TO BE PROHIBITED.
 - Extra caution should be taken during automatic burst firing. Burst firing can create a concentrated impact area. It is the responsibility of the operator and the supervisory personnel to ensure the training is designed and conducted to help minimize potential injury.
 - UTM recommends two layers of loose fitting clothing be worn during training exercises. One layer of clothing i.e. military BDUs/ACUs, is mandatory.
 - Proper wearing of safety equipment and protective clothing is vital in preventing the breaking of the skin or long term bruising. While wearing the recommended safety equipment and clothing, 'hits' can cause participants to experience minor stinging, 'Jells' or bruises. All equipment should fit properly and permit the participant to accomplish the required movements and tasks.
 - Should your protective equipment become dislodged during the training exercise, immediately drop to a knee or move into a protective posture and protect the exposed area and loudly shout, 'Actual Stop' three times.
 - Upon hearing "Actual Stop", all participants should immediately stop/freeze all activity. The PSCs are to have a way to signal an "Actual Stop", either a loud whistle or air horn that all participants can hear and respond to immediately.
 - Immediately report all injuries to the Primary Safety Controller.
 - Any time an injury occurs during a training exercise and there is any question of the severity of the injury, medical professionals must be notified to assess and treat the injury.
 - Clean and sanitize the protective equipment as required.
 - Before returning weapons to 'duty' status "ALWAYS Check Twice"!! to ensure they are clear, cleaned and fully functional for live firing.

Subject: Safety Of Use (SOU) Message, TACOM Life Cycle Management Command, (TACOM LCMC) Control No. SOU 09-008, Operational, Non-Standard Man-Marking Systems (Commercially Provided Version of Close Combat Mission Capabilities Kit (CCMCK)).

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D      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX D
A      X                          "WARNING"                          X  A
N      X DEATH OR SERIOUS INJURY TO SOLDIERS, OR DAMAGE X      N
G      X TO ARMY EQUIPMENT WILL OCCUR IF THE INSTRUCTIONS X      G
E      X IN THIS MESSAGE ARE NOT FOLLOWED. X      E
R      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX R

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1. Distribution:

a. This is an Operational Safety Of Use Message. Commanders/Directors of Army Commands (AC)/Army Service Component Commands (ASCC)/Direct Reporting Units (DRU), Army National Guard (ARNG), US Army Reserve (USAR) Command and other Service Commanders and Responsible Offices will retransmit this message to all subordinate Commanders/Activities within 24 hours of receipt of this message and will, within 5 working days, acknowledge receipt of this message by e-mail to DAMI_safety.of.use@conus.army.mil or by telephoning DSN 786-6096, Commercial (586)574-6096 or in writing to Commander, TACOM Life Cycle Management Command (TACOM LCMC), ATTN: AMSTA-LC-LMPM, 6501 E. 11 Mile Rd., Warren, MI 48397-5000.

b. Commanders/Directors of Army Commands (AC)/Army Service Component Commands (ASCC)/Direct Reporting Units (DRU), Army National Guard (ARNG), US Army Reserve (USAR) Command, other Service Commanders and other Responsible Offices, will also track and report compliance of this message for all subordinate Commands/Activities to: Mark Johnson, TACOM-RI/AMSTA-LC-WSLE, DSN 793-2335, COMM (309) 782-2335, email: johnsonjr@us.army.mil.

2. Problem:

a. Summary of problem. Soldiers are not using adequate personal protective equipment (PPE) when training with Non-Standard Man-Marking Systems (Commercially Provided Version of CCMCK). If the appropriate PPE is not worn, the potential for serious personnel injury can occur.

b. Background. A recent report from the field indicated a soldier sustained an eye injury during a MOUT training exercise being conducted at Ft. Leonard Wood MO, when a 5.56MM Man-Marking round (commercially provided version of the CCMCK ammunition component) struck him in the eye at approximately 35 meters. At the time of the incident, the involved soldier was wearing eye protection (Oakley SI M glasses), issued face mask, throat protector, and ballistic helmet. The round entered a small gap between the face mask and his eye protection. For safe training, the minimum required PPE is listed in paragraph 3a below. When conducting force on force training with a Non-Standard Man-Marking Systems (Commercially Provided Version of CCMCK) or the CCMCK system, the minimum engagement distance is 5 meters, there shall be no head shots and no exposed skin.

c. Expected results if failure occurs. If the appropriate PPE is not worn there exists the potential for both eye injury, resulting in permanent disability, and skin penetration.

3. User Actions:

a. When training is being conducted with Man-Marking Systems, the minimum required PPE to be used is:

Safety Equipment Nomenclature	NSN
- CCMCK Lower Face and Throat Protection	8415-99-359-9160
- Groin Protection	Various, such as 8470-01-456-1100
- PASGT (Personnel Armor System for Ground Troops)- Helmet	Various, such as 8470-01-092-7528
- ACH (Advanced Combat Helmet)	Various, such as 8470-01-476-2524
- ACU (Army Combat Uniform), with sleeves rolled down	Various, such as 8415-01-519-8510 8415-01-519-8426
- Standard Gloves	Various, such as 8415-01-518-5140
- SWD (Standard Ballistic, Sand, Wind, Dust) Goggles	8465-01-328-8268

When conducting force on force training with either Non-Standard Man-Marking Systems (Commercially Provided Version of CCMCK) or the CCMCK system the minimum engagement distance is 5 meters, there shall be no head shots and no exposed skin.

4. Unit Commanders:

a. Ensure and enforce above listed PPE paragraph 3.a) is on hand for use during Man-Marking Systems training.

b. Contact your local TACOM LCMC Logistics Assistance Representative (LAR) or your State Surface Maintenance Manager upon receipt of this message for assistance. For assistance in locating your TACOM LCMC LAR, see paragraph 6.c.

5. Supply Status: Because this is a commercially provided unreleased item, there are no supply concerns.

6. POCs:

a. Equipment Specialist, Mark Johnson, TACOM-RI/AMSTA-LC-WSLE, DSN 793-2335, COMM (309) 782-2335, email: johnsonjr@us.army.mil.

b. Safety Engineers, Jose Rivera, TACOM-RI Safety Office, DSN 793-0957, COMM (309) 782-0957, email: rock-amsta-cs-czr@conus.army.mil and Jeffrey Williams, AMSRD-AAR-QES-F, System Safety Office, DSN 880 8273, COMM (973) 724-8273, jeffrey.williams28@us.army.mil.

c. To find your TACOM LCMC LAR, you must be a registered user in the Army Electronic Product Support (AEPS) database. If you are a registered user, then click on this link: <https://aeaps2.ria.army.mil/Services/Lars/Tacom/larmap/LARlocate/larmap.cfm> Then select the appropriate region; i.e. CONUS, Europe, Far East, and SWA. Select the location nearest you and click on a name. This

will give you a LAR's name, DSN and commercial phone number, email address, and photo.

(1) If you are not a registered user, request access at the public page: <https://aeprs.ria.army.mil/aeprspublic.cfm> then click on "Access Request Form" and follow the instructions for obtaining an AEPS userid. If you don't have access to AEPS, you can also obtain this information by contacting the TACOM LCMC Senior Command Representative (SCR) for your area.

(2) CONUS-East Region includes all Active Duty, National Guard and Reserve Units in Wisconsin, Illinois, Michigan, Indiana, Ohio, Kentucky, Tennessee, Mississippi, Alabama, Georgia, Florida, Louisiana, South Carolina, North Carolina, Virginia, West Virginia, Maryland, Delaware, Pennsylvania, New Jersey, Connecticut, Rhode Island, Massachusetts, New York, New Hampshire, Vermont, Maine and FORSCOM. CONUS-East SCR can be reached at DSN 236-6921, Commercial 910-396-6921.

(3) CONUS-West Region includes all Active Duty, National Guard and Reserve Units in North Dakota, South Dakota, Minnesota, Nebraska, Iowa, Missouri, Kansas, Oklahoma, Arkansas, Texas, Colorado, Montana, and Wyoming. CONUS-West SCR can be reached at DSN 737-0263, Commercial 254-287-0263.

(4) Pacific Region includes all Active Duty, National Guard and Reserve Units in Washington, Oregon, Idaho, Nevada, Utah, Arizona, Alaska, Hawaii, California, New Mexico and Guam. Pacific SCR can be reached at DSN 357-2991, Commercial 253-967-2991.

(5) Europe Region includes all Active Duty, National Guard and Reserve Units in Great Britain, Germany, Belgium, Luxemburg, Italy, Bosnia, Kosovo, and Macedonia. Europe SCR can be reached at DSN 314-375-3461, Commercial 01149 621-487-3461, in Germany, 0621-487-3461.

(6) Far East Region includes all Active Duty, National Guard and Reserve Units in Korea, Okinawa, Kwajalein, and Japan. Far East SCR can be reached at DSN 315-721-7101, commercial 011-82-2-2270-7101.

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Risher, Michael W II CIV USARMY MCOE (US)

From: Risher, Michael W II CIV (US)
Sent: Monday, April 09, 2012 8:35 AM
To: Messer, James B CIV (US); Keith, Scott A CIV (US); King, Shawn H CIV (US); Joiner, Sean R Sr CIV (US); Castro, Jorge L CIV (US)
Subject: (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) – CTG 5.56MM M1042, 5.56MM M1071, AND 9MM M1041 (UNCLASSIFIED)
Attachments: AIN057-12A.pdf
Signed By: michael.w.risher@us.army.mil

Tracking:	Recipient	Delivery	Read
	Messer, James B CIV (US)	Delivered: 4/9/2012 8:35 AM	Read: 4/9/2012 9:43 AM
	Keith, Scott A CIV (US)	Delivered: 4/9/2012 8:35 AM	
	King, Shawn H CIV (US)	Delivered: 4/9/2012 8:35 AM	Read: 4/9/2012 12:54 PM
	Joiner, Sean R Sr CIV (US)	Delivered: 4/9/2012 8:35 AM	Read: 4/9/2012 10:06 AM
	Castro, Jorge L CIV (US)	Delivered: 4/9/2012 8:35 AM	Read: 4/9/2012 4:10 PM

Classification: UNCLASSIFIED
Caveats: NONE

FYSA

-----Original Message-----

Subject: (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) - CTG 5.56MM M1042, 5.56MM M1071, AND 9MM M1041

/UNCLASSIFIED//

041241Z Apr 12

FROM CDR JMC ROCK ISL IL//AMSJM-QAS//

740 (A)

SUBJECT: AMMUNITION INFORMATION NOTICE (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) - CTG 5.56MM M1042, 5.56MM M1071, AND 9MM M1041

1. AIN 056-12 WAS TRANSMITTED ON 301926Z Mar 12
2. THIS IS THE INITIAL ISSUE OF THIS AIN
3. DODICS: AB09/AB10/AB11/AB12/AB13/AB14/AB15/AB16/AB17
4. REFERENCES:

A. MEMORANDUM, FOR: US ARMY PROJECT MANAGER, MANEUVER AMMUNITION SYSTEM, SFAE-AMO-MAS-SMC, 20 JAN 2012, SUBJECT: AMENDMENT NO. 1 TO THE SAFETY CONFIRMATION FOR THE CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) IN SUPPORT OF FIELDING

B. MEMORANDUM, US ARDEC, ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER, RDAR-EIL-LA, 6 MAR 2012, SUBJECT:

REQUEST FOR AMMUNITION INFORMATION NOTICE (AIN) - CLOSE COMBAT MISSION
CAPABILITY KITS (CCMCK) - ENGAGEMENT DISTANCE

C. MIL-STD-882D, STANDARD PRACTICE FOR SYSTEM SAFETY, 10 FEB 00

D. TM 9-6920-3700-10, TECHNICAL MANUAL OPERATOR'S MANUAL FOR CLOSE COMBAT
MISSION CAPABILITY KIT (CCMCK), 13 MAR 09

5. THIS AIN WILL BE DISSEMINATED TO ALL PERSONNEL INVOLVED IN INSPECTING,
STORING, HANDLING, ISSUING, OR USING SUBJECT AMMUNITION. THIS AIN WILL BE
ENFORCED BY THE UNIT OFFICER IN CHARGE (OIC) / NON-COMMISSIONED OIC (NCOIC),
RANGE SAFETY OFFICER, OR LOCAL TRAINING OFFICER WITH DIRECT COMMAND AND
CONTROL OVER RANGES USING CCMCK ASSETS.

6. BLUF: THE FOLLOWING MINIMUM SAFE ENGAGEMENT DISTANCES WILL BE ENFORCED
WHEN CONDUCTING TRAINING USING CCMCK AMMUNITION:

A. CTG 5.56MM (M1042 AND M1071) CCMCK - ALL LOTS - 1.5 METERS (5 FT)
FROM END OF THE WEAPON MUZZLE.

B. CTG 9MM (M1041) CCMCK ALL LOTS - 1.5 METERS (5 FT) FROM
WEAPON MUZZLE.

7. SYSTEM DESCRIPTIONS: CCMCK IS DESIGNED TO ALLOW FORCE-ON-FORCE CLOSE
COMBAT TRAINING BY TEMPORARILY CONVERTING SERVICE WEAPONS
(M16 SERIES RIFLES, M4 SERIES CARBINES, M249 SQUAD AUTOMATIC WEAPONS (SAW),
AND M9 AND M11 PISTOLS) TO FIRE LOW-VELOCITY MARKING AMMUNITION. THE SYSTEM
ALLOWS NORMAL WEAPON EMPLOYMENT CUES SUCH AS AIMING, FIRING, FORCE-ON-FORCE
TRAINING, AND INTERACTIVE LIVE-FIRE SCENARIOS.

8. SAFETY STUDY:

A. ARDEC CONDUCTED SAFETY CONFIRMATION TESTS TO SUPPORT FULL MATERIAL
RELEASE AND THE FIELDING OF THESE SUBJECT CCMCK ASSETS
AND DETERMINE THE MINIMUM ENGAGEMENT DISTANCES. THE TEST
METHODOLOGY FOCUSED ON ASSESSING PROJECTILE BEHAVIOR GIVEN A WORSE CASE IMPACT
VELOCITY AGAINST THE ARMY COMBAT UNIFORM (ACU) FABRIC OVER GELATIN.
ALL LOTS OF THE M1041 AND M1071 MANUFACTURED TO DATE, ARE WELL BELOW MAXIMUM
VELOCITY OF 450 FT/SEC ON 5.56MM CARTRIDGES. THE CTG 9MM (M1041) WAS TESTED
DURING THE 2007 ATC DT AND DID NOT TEAR OR PENETRATE THE ACU FABRICS.

B. IN ADDITION, THE TESTS SHOWED THAT THERE WERE INSTANCES WHERE THE
PLASTIC TIPS OF THE PROJECTILES FOR CCMCK FALL OFF OR BECOME LOOSE DURING
HANDLING AND LOADING. CARTRIDGES FIRED WITH LOOSE OR MISSING PLASTIC TIPS
HAVE HIGHER VELOCITIES AND THE PROJECTILE CAN BE EXPECTED TO PENETRATE THE ACU
FABRIC AND SKIN.
THE PROTECTIVE FACE MASKS DID STOP THE HIGHER VELOCITY PROJECTILES.

C. THE COMBINED RESULTS OF THESE TESTS CONCLUDED THE OVERALL RISK WAS
MEDIUM WHEN USING CCMCK CARTRIDGES WITH THE APPROVED COMMERCIAL OFF-THE-SHELF
(COTS) PROTECTIVE MASKS, PROVIDED USERS FOLLOW THE WARNINGS, PROCEDURES, AND
MITIGATIONS IDENTIFIED HEREIN AND IN THE TECHNICAL MANUAL (REF D).

D. THIS OVERALL MEDIUM RISK ALLOWED A REDUCTION IN THE SAFE MINIMUM
ENGAGEMENT DISTANCE TO 1.5 METERS (5 FT). THIS SAFETY CONFIRMATION INCLUDES
ALL LOTS OF CTG 5.56MM (M1042 AND M1071) CCMCK AMMUNITION. THERE ARE NO
RESTRICTIONS TO LOTS FOR THE CTG 9MM (M1041).

9. THE ATTACHED TABLES (AIN057-12A) LIST THE CCMCK CARTRIDGES APPROVED FOR FULL MATERIAL RELEASE:

10. ADDITIONAL SAFETY INFORMATION:

A. SOLDIERS WILL WEAR APPROVED PPE FOR PROTECTION OF THE EYES, HEAD, NECK, AND GROIN. THE SIMUNITION FXR OR EYE TACTICAL PROTECTIVE FACE MASKS MUST BE WORN IN CONJUNCTION WITH THE ARMY COMBAT HELMET (ACH). FAILURE TO WEAR APPROVED PPE CAN RESULT IN PERMANENT PARTIAL DISABILITY DUE TO THE PROJECTILES IMPACTING THE UNPROTECTED HEAD, EYES, FACE, NECK, OR GROIN.

B. HEAD SHOTS ARE PROHIBITED. SOLDIERS MUST AIM FOR THE TARGET'S BODY CENTER OF MASS.

C. SOLDIERS WILL NOT TRAIN WITH ANY CCMCK WEAPON OR CARTRIDGES WITHOUT ALL SKIN COVERED BY A MINIMUM OF ONE LAYER OF CLOTHING (INCLUDING COMBAT GLOVES). SOLDIERS TRAINING WITHOUT COMPLETE PPE WILL INCUR BRUISING, WELTS AND POSSIBLE BROKEN SKIN.

D. SOLDIERS WILL WEAR SINGLE HEARING PROTECTION WHEN TRAINING WITH ANY CCMCK WEAPON OR CARTRIDGE.

E. INSPECT THE CTG 5.56MM (M1042 AND M1071) TO ENSURE THE PLASTIC TIPS ARE SECURE AND CANNOT BE REMOVED BY HAND.

11. TECHNICAL POINT OF CONTACTS: MR. ROBERT WEISSMAN, DSN 880-3056, EMAIL: ROBERT.WEISSMAN@US.ARMY.MIL AND MR. DAVID CHAROWSKY, DSN: 880-6087, EMAIL: DAVID.CHAROWSKY@US.ARMY.MIL, RDAR-MEM-I. POINT OF CONTACT FOR DISTRIBUTION OF THIS AIN IS DARRIN LAMPMAN, DSN 793-7188, AMSJM-QAS, EMAIL: DARRIN.LAMPMAN@US.ARMY.MIL.

12. THIS AIN EXPIRES 31 MARCH 2014 UNLESS OTHERWISE RESCINDED OR SUPERSEDED.

Thank you.

-----Original Message-----

From: Couri, Connie A CIV (US)
Sent: Wednesday, April 04, 2012 10:41 AM
To: Moralesmiranda, Rodolfo A CIV (US)
Cc: Powell, Darryl L CIV USARMY CAC (US)
Subject: FW: (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) - CTG 5.56MM M1042, 5.56MM M1071, AND 9MM M1041 (UNCLASSIFIED)
Importance: High

-----Original Message-----

From: Campbell, Curtis W Jr CIV (US)
Sent: Wednesday, April 04, 2012 9:37 AM
To: Army AMC org JMC-QAS-NAR
Subject: (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) - CTG 5.56MM M1042, 5.56MM M1071, AND 9MM M1041

/UNCLASSIFIED//

041241Z Apr 12

FROM CDR JMC ROCK ISL IL//AMSJM-QAS//

740 (A)

SUBJECT: AMMUNITION INFORMATION NOTICE (AIN) 057-12, MINIMUM SAFE ENGAGEMENT DISTANCE FOR CLOSE COMBAT MISSION CAPABILITY KITS (CCMCK) - CTG 5.56MM M1042, 5.56MM M1071, AND 9MM M1041

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B. MEMORANDUM, US ARDEC, ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER, RDAR-EIL-LA, 6 MAR 2012, SUBJECT:
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D. THIS OVERALL MEDIUM RISK ALLOWED A REDUCTION IN THE SAFE MINIMUM ENGAGEMENT DISTANCE TO 1.5 METERS (5 FT). THIS SAFETY CONFIRMATION INCLUDES ALL LOTS OF CTG 5.56MM (M1042 AND M1071) CCMCK AMMUNITION. THERE ARE NO RESTRICTIONS TO LOTS FOR THE CTG 9MM (M1041).

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12. THIS AIN EXPIRES 31 MARCH 2014 UNLESS OTHERWISE RESCINDED OR SUPERSEDED.

//SIGNED//
JOHN W. GRAY
CHIEF, AMMUNITION SURVEILLANCE DIVISION

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

THE FOLLOWING TABLES LIST THE CCMCK CARTRIDGES APPROVED FOR FULL MATERIAL RELEASE:

A. CTG, 5.56MM, M1042, BULK, PRACTICE, CLIPPED FOR CCMCK RIFLE

MODEL	NOMENCLATURE	DODIC	NSN
M1042	CTG, 5.56MM, M1042, BULK, BLUE	AB09	1305-01-536-5822
	CTG, 5.56MM, M1042, BULK, RED	AB10	1305-01-536-5827
	CTG, 5.56MM, M1042, BULK, YELLOW	AB11	1305-01-536-5829

B. CTG, 5.56MM, M1071, LINKED PRACTICE, FOR CCMCK, SAW

MODEL	NOMENCLATURE	DODIC	NSN
M1071	CTG, 5.56MM, M1071, LINKED YELLOW	AB15	1305-01-536-9289
	CTG, 5.56MM, M1071, LINKED BLUE	AB16	1305-01-537-1521
	CTG, 5.56MM, M1071, LINKED RED	AB17	1305-01-537-1522

C. CTG, 9MM, M1041, PRACTICE, FOR CCMCK

MODEL	NOMENCLATURE	DODIC	NSN
M1041	CTG, 9MM M1041, PRACTICE, YELLOW	AB12	1305-01-536-7720
	CTG, 9MM M1041, PRACTICE, BLUE	AB13	1305-01-536-7721
	CTG, 9MM M1041, PRACTICE, RED	AB14	1305-01-536-7722



Material Safety Data Sheet

Man-Marker Rounds "MMR"

UTM MSDS, Man-Marker Rounds
Revision No. 2

Revision Date: September 2009
Supersedes: June 2007

SECTION 1.

Product and Company Identification

Manufacturer: UTM Ltd. Hampstead Avenue Mildenhall Suffolk IP28 7AS United Kingdom www.utmworldwide.com	USA Distribution: UTM Inc. 55 Readington Rd. North Branch, NJ 08876 USA	Customer Service: <u>United Kingdom & ROW:</u> +44 (0) 1638 711 003 <u>Unites States Sales Office:</u> 1-877-866-7233 <u>United States Headquarters:</u> 908-725-9000
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Product Name:
Cartridges, Small Arms, Man-Marker Rounds. (Non-lethal Training Ammunition)

Synonyms: Marker Rounds, MMR, Dye Marking cartridges, UTM's, SESAMS.

Types: 9mm, 5.56mm (Loose), 5.56mm (Linked), 5.7mm, 7.62 x 51mm, 7.62 x 39mm, 4.6mm, & 38 Special.

Marking Colors: Red, Blue, Yellow, White, Green.

Technical Support Service:
 United Kingdom & Rest of World (ROW): sales@utmworldwide.com
 Unites States: us.sales@utmworldwide.com, us.military.sales@utmworldwide.com

Emergency Phone Number: <u>UK/ Rest of World (ROW):</u> +44 (0)1638 711 003 <u>USA:</u> 1-877-866-7233 or 908-725-9000	Emergency Phone Hours: <u>UK/ Rest of World (ROW) :</u> 9am to 5pm GMT <u>USA:</u> 9am to 5pm EST
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Issue date: June 2007	Revision Date: September 2009
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SECTION 2.

Hazards Identification

Appearance / Odor:
 An odorless metallic cylindrical cartridge, having a metallic projectile, filled with a colored marking compound and encapsulated with a 3 legged cruciform plastic dome.

Emergency Overview:

WARNING!
EXPLOSIVE, KEEP AWAY FROM HEAT.
DO NOT SUBJECT TO MECHANICAL SHOCK.
PARTICLES FROM FIRING MAY BE HARMFUL IF INHALED.
USE (TRAINING) WITHOUT THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT CAN CAUSE BODILY INJURY.
DO NOT TAKE INTERNALLY.

Continued on page 2

SECTION 2.

Hazards Identification (continued)

Specific Physical Hazards Arising From Product:

Packaged and Loose cartridges could function (cook-off) if exposed to an external heat source in excess of 275°C (527°F) and could produce low velocity metallic fragments which could cause eye injury or superficial skin wounds.

Caution:

When UTM MMR training ammunition is fired, small amounts of particles can be emitted as well as gases. Upon over exposure this can be slightly irritating to the eye and respiratory tract. Emitted particles and or gases may contain trace amounts of harmful substances.

OSHA Regulatory Status:

This product contains material (s) that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product contains potential carcinogens as listed by OSHA, IARC or NTP.

United Nations Hazard Classification:

Classification 1.4S

United Nations Designation:

UN0012

Potential Health Effects/ Likely Routes of Exposure:

Notes: This product in its unused state is composed of various components sealed inside a metallic cartridge. Normal handling of this product in its unused state poses no threat of exposure to harmful materials.

It is unlikely that the concentration of particles one would be exposed to from normal firing of this product would be sufficient to cause any of the effects listed in the Hazards Identification section.

No Hazard data is available on this product. Known individual constituents are as follows:

Antimony (III) Sulfide: Harmful by inhalation and if swallowed. May be harmful in contact with the skin. Skin, eye and respiratory irritant. Chronic exposure may lead to kidney or liver damage.

Lead: Ingestion of large amounts of Lead can cause abdominal pain, constipation, cramps, nausea and/or vomiting. Chronic exposure to Lead can cause kidney damage, anemia, reproductive effects, developmental effects and permanent nervous system damage in humans including changes in cognitive function.

Nitrocellulose: Inhalation may irritate your nose, throat, skin and eyes. Long-term exposure to damped nitrocellulose can lead to chronic health effects such as kidney and liver damage, depression of the central nervous system and permanent eye damage. Toxic gases, such as oxides of nitrogen, hydrogen cyanide and carbon monoxide, which may be produced during decomposition or combustion of nitrocellulose also pose health hazards.

Diethylether: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Medical Conditions Aggravated by Exposure:

There are no medical conditions known to be aggravated by exposure to this product in its solid un-fired form.

Exposure to Lead can aggravate Anemia, Cardiovascular and Respiratory Disease.

Potential Environmental Effects:

No Data.

Lead has been shown to be toxic to aquatic species.

SECTION 3.

Composition / Information on Ingredients

Hazardous Substances:

Common Substances found in all MMR Products			
Component /Substance	CAS #	EINECS #	Percentage by Weight of Compound
Energetic Compound "A" Substances			Energetic Material/Compound "A" Mass: 3mg - 48mg
Antimony (III) Sulphide	1345-04-6	215-713-4	2.9 - 58.6%
Lead Dioxide	1309-60-0	None	0 - 43.7%
Lead Styphnate, Lead Trinitroresorcinate	15245-44-0	None	20.3 - 46.9%

Substances Specific to 5.56mm & 7.62mm MMR Products			
Component /Substance	CAS #	EINECS #	Percentage by Weight of Compound
Energetic Compound "B" Substances			Energetic Material/Compound "B" Mass: 0mg -46mg
Diethylether	60-29-7	200-467-2	0-3.5%
Nitrocellulose	9004-70-0	None	0-99%

Note: Non-hazardous substances nor any substances contained in any components of which are classed as "Articles" as described in CFR 25 1910. 1200, Section 6 have been listed on this MSDS.

SECTION 4.

First Aid Measures

*** Eye Contact:**

Immediately flush out fume or particles with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician immediately.

*** Skin Contact:**

Wash skin with plenty of soap and water.

*** Inhalation:**

If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion:

If ingested, immediately call a physician.

Items marked with an asterisk (*) are conditions associated with the firing or discharge of the product and under normal conditions of transportation and handling of the product would not be a risk.

SECTION 5.

Fire Fighting Measures

Flammable Properties:

May detonate if heated to 275°C (527°F).

Suitable Extinguishing Media:

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used.
Cool the containing vessel with a water jet in order to prevent the ammunition from functioning (cook-off).
Use water to cool ordinary surrounding combustibles.
Use flooding quantities of water.
Use wide fog pattern nozzle to stop any low velocity fragments.

Specific Hazards Arising From Product:

Packaged and Loose cartridges could function (cook-off) due to direct exposure to an external heat source and could produce low velocity metallic fragments which could cause eye injury or superficial skin wounds.

Protective Equipment & Precautions for Firefighters:

Wear full fire-fighter protective equipment including face shield or SCBA.
Minimum recommended distance for rescue personnel 10 meters (11 yards).
Evacuate the area to a radius of 100 meters (110 yards).

SECTION 6.

Accidental Release Measures

Methods for Containment:

Spills of this material should be handled carefully. Do not subject materials to mechanical shock. A spill of this material will normally not require emergency response team capabilities.

Methods for Clean-up:

If ammunition packing case should rupture, any loose cartridges should be placed into UTM classified packaging and the lid carefully secured.
Damaged/ Defective Ammunition should be quarantined into UTM classified packaging and disposed of in accordance with local instructions for defective ammunition, such as burnt in a standard ammunition incinerator.

SECTION 7.

Handling & Storage

Handling:

Keep out of reach of any unauthorized personnel.
Keep out of reach of children.
Wash hands thoroughly with soap and warm water after handling and before eating or smoking.
Ergonomic lifting techniques to be applied when lifting ammunition cartons.

Storage, including any incompatibilities:

Keep out of reach of any unauthorized personnel.
Keep out of reach of children.
Packaged ammunition should be stored in a cool dry environment in a common ammunition lockup (magazine).
Avoid striking the primer of an unchambered cartridge.
Ammunition should be disposed of as defective ammunition if any of the following conditions occur:

- Storage temperatures exceed 90°C (195°F).
- Evidence of corrosion.
- Physical damage.

SECTION 8.

Exposure Controls / Personal Protection (PPE)

Component /Substance	CAS #	OSHA PEL-TWA	ACGIH TLV-TWA
Energetic Compound Substances			
Antimony (III) Sulphide	1345-04-6	0.5 mg/m ³	0.5 mg/m ³
Diethylether	60-29-7	1200 mg/m ³	1500 mg/m ³
Lead Styphnate, Lead Trinitroresorcinat	15245-44-0	0.05 mg/m ³	None Established
Lead Dioxide	1309-60-0	0.05 mg/m ³	0.05 mg/m ³
Nitrocellulose	9004-70-0	None Established	None Established

Engineering Controls:

Normal handling of this product requires no special controls.
When Firing product local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use exhaust ventilation with explosion-proof ventilation.

Eye / Face Protection:

Normal handling of this product requires the use safety glasses.
When training with product always wear the appropriate PPE base on the type of training.
Always wear UTM Face Mask and UTM approved Goggles when engaging in Force-on-Force training.

Hand Protection:

Not normally needed for handling this product.
When training with product always wear the appropriate PPE base on the type of training.
Always wear UTM Protective Gloves when engaging in Force-on-Force training.

Skin Protection:

Not normally needed for handling this product.
When training with product always wear the appropriate PPE base on the type of training.
Always wear a minimum of two layers of loose fitting clothing with no exposed skin when engaging in Force-on-Force training.

Respiratory Protection:

Not normally needed when handling this product.
If when firing the airborne concentrations exceed the above listed exposure limits wear respiratory protection in accordance with local regulations.

Hearing Protection:

When firing cartridges if noise levels exceed maximum regulatory levels it is advised that hearing protection be worn.

General Hygiene:

Do not eat, drink, or smoke while using this product.
When firing, avoid breathing fumes and smoke.
Wash hands thoroughly after use.

Safety Phrases:

For Hazardous Composition substances: S16, S22, S23, S29, S33, S35, S37, S39.

SECTION 9.

Physical & Chemical Properties

Appearance (color, physical form, shape):

Cylindrical Cartridge - Aluminium (turned). Having an aluminum projectile and two independent energetic compounds. Projectile having a opaque plastic nose and incasing a visible colored marking compound.

Property	Value	Property	Value
Odor:	None	Partition Coefficient: N-Octanol / Water:	Not Applicable
Odor Threshold:	Not Applicable	Auto-Ignition Temperature:	Cartridges could spontaneously function (cook-off) at 275°C (527°F)
Physical State:	Multi Component Solid & Waxy Solid	Decomposition Temperature:	Not Applicable
pH:	Not Applicable	Heat Value:	Not Applicable
Melting / Freezing Point: (Specify which)	Not Applicable	Particle Size;	Not Applicable
Initial Boiling Point & Boiling Range:	Not Applicable	Volatile Organic Compounds (VOC) content:	Not Applicable
Flash Point:	Cartridges could spontaneously function (cook-off) at 275°C (527°F)	Softening Point:	Not Applicable
Evaporation Rate:	Not Applicable	Pour Point:	Not Applicable
Flammability (solid, gas):	Not Applicable	Viscosity:	Not Applicable
Upper / Lower Flammability or Explosive Limits:	Not Applicable	Bulk Density:	Not Applicable
Vapor Pressure:	Not Applicable	Percent Volatile;	Not Applicable
Vapor Density:	Not Applicable	Saturated Vapor Concentration:	Not Applicable
Specific Gravity or Relative Density:	Not Applicable	Molecular Weight;	Not Applicable
Solubility (ies):	Insoluble	Molecular Formula.	Not Applicable

SECTION 10.

Stability & Reactivity

Stability:

Product stable under normal use.
Normal operating temperature conditions between -5°C (40°F) and 40°C (104°F).

Conditions to Avoid:

Cartridge may function if the primer is inadvertently struck. Avoid subjecting to mechanical shock.
Product could spontaneously function if heated to 275°C (527°F).

Incompatible Materials:

Acids, Alkalis, Ammonia, Acetylene, Caustics Chlorine, Halogenated Hydrocarbons, corrosive or strong oxidizing substances.

Hazardous Decomposition Products:

Nitrogen Oxides, Carbon and Carbon Oxides, Sulphur and Sulphur Oxides.
Other dust and fumes may also be produced.

Possibility of Hazardous reactions:

No reported reactions.

SECTION 11.

Toxicological Information

Oral LD 50:

No Data.

Dermal LD 50:

No Data.

Inhalation LC 50:

No Data.

Risk Phrases:

For hazardous composition substances: R1, R3, R5, R6, R11, R12, R19, R20, R21, R22, R23, R24, R25, R36, R50, R53, R61, R66, R67.

Sub Chronic/ Chronic Toxicity:

Lead has caused blood, kidney and nervous system damage in laboratory animals.

Carcinogenicity:

The International Agency for Research on Cancer (IARC) lists Lead as possibly carcinogenic to humans, group 2B.

Mutagenicity:

This products is not known or reported to be mutagenic. Lead has been shown to be mutagenic in several in-vitro assays.

Reproductive, Teratogenicity, Or Developmental Effects:

This product is not known or reported to cause reproductive or developmental effects. Lead has been shown to affect fetal development including birth defects and reduce male reproductive function in laboratory animals. Dibutyl Phthalate has caused reproductive and developmental effects in animal studies.

Neurological Effects:

This product is not known or reported to cause neurological effects. Lead has caused peripheral and central nervous system damage and behavioral effects in laboratory animals.

Interactions With Other Chemicals Which Enhance Toxicity:

None known or reported.

SECTION 12.

Ecological Information

Ecotoxicity/ Persistence/ Degradability/ Mobility:

No data is available on this product. Known Individual constituents are as follows:

Antimony (III) Sulphide: No Data.

Lead: LC 50 (48 hrs.) to bluegill (*Lepomis macrochirus*) is reported to be 2-5 mg/l. Lead is toxic to waterfowl.

Lead Dioxide: No Data.

Nitrocellulose: LC50 > 1000 mg/l (fish, invertebrates, algae).

Diethylether: No Data.

Bioaccumulation / Accumulation:

No known bioaccumulative issues.

Other Adverse Effects:

None known or reported.

SECTION 13.

Disposal Information

Disposal :

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. This information presented below only applies to the material as supplied after firing. The identification based on characteristic (s) or listing may not apply if the material has not been fired or has been otherwise contaminated.

Damaged (Non-functioned) rounds:

Quarantined in classified packaging and disposed in accordance with local instructions for defective small arms ammunition.

Faulty (Non-functioned) ammunition:

Quarantined in classified packaging and disposed in accordance with local instructions for defective small arms ammunition.

Special precautions for landfill or incineration:

Damaged or defective ammunition may contain live explosive compound within the 'primers'. Care should be taken when feeding the damaged or defective ammunition into an incinerator. Personal Protective Equipment suitable to the burning work must be worn at all times.

SECTION 14.

Transportation Information

Basic Shipping Information:

Proper Shipping Name: Cartridges, Small Arms
Hazard Class: 1.4 S
Subsidiary Hazard Class: Not Applicable
Identification Number: UN0012
Packing Group: Packaging Group II, Substances presenting medium danger.
Packaging Group III, Substances presenting low danger

Special Comments:

UTM Training ammunition is to be afforded the same handling and usage restriction as applied to common live ammunition usage. Ammunition shipped domestically in the US can be reclassified as ORM-D or ORM-D Air (within guidelines). See 49 CFR 173.63 for ORM-D reclassification.

SECTION 15.

Regulatory Information

TSCA Inventory Status:

Components of this product are listed on the Toxic Substance Control Act inventory.

CERCLA:

Component	CASRN	RCRA Waste No.	Final RQ Pounds (KG)
Antimony and Compounds	Not Applicable	None	5000 (2270)
Ethyl ether	60-29-7	U117	100
Lead and Compounds	Not Applicable	None	10 (4.45)

SARA 302:

None of the components in this product are listed.

SARA 311/312 Hazard Class:

Sudden release of pressure, Chronic health effects.

SARA 313:

Antimony and Compounds, Lead and Lead Compounds.

State Right to Know:

WARNING: This product contains detectable amounts of a chemical (s) known to the State of California to cause cancer and/or birth defects or other reproductive harm.

SECTION 16.

Other Information

References:

- OSHA 29CFR 1910.
- ANSI Z400.1-2004.
- 49 CFR 173.63.
- US Department of health and Human Services, 11th Report on Carcinogens.
- State of California Environmental Protection Agency Office of Environmental Health Hazard Assessment Safe Drinking Water and Toxic Enforcement Act of 1986, Chemicals known to the state to cause cancer or reproductive toxicity.
- International Agency for Research on Cancer, Agents reviewed by the IARC Monographs, Volumes 1-100A, SEPTEMBER 11, 2009.
- US Environmental Protection Agency, EPA 550-B-01-003, List of Lists, Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA) and Section 112(r) of the Clean Air Act..
- US Environmental Protection Agency, Substance Registry Services
- NIOSH, National Institute for Occupational Safety & Health, Pocket guide to chemical Hazards.
- ATSDR, Agency for Toxic Substances & Disease Registry, 2007 priority List
- UN Recommendations on the Transport of Dangerous goods model regulations 14th edition Explosives by Rudolf Mayer.
- Chemicals Hazard Information and Packaging supply regulations (CHIP) approved supply list 7th edition and U.K competent authority documents.

Prepared By:

UTM Ltd.

Additional Contact Info:

Additional information available from: www.utmworldwide.com

Notice:

The information in this MSDS should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. UTM Ltd. believes this information to be reliable and current as of the date of publication, but makes no warranty that it is.

Disclaimer:

This information relates only to the specific product and it's material and substances designated and may not be valid for such product and it's material and substances used in combination with any other materials or in any process. This information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of this information for his own particular use.



Personal Protective Equipment (PPE) (Force-on-Force)

Mandatory Personal Protective Equipment for Force-on-Force Training

Whenever Conducting UTM MMR "Force-on-Force" Training Exercises, UTM approved goggles, protective face mask and gloves are mandatory for all participants and bystanders.

Additionally, it is mandatory that a minimum of one layer of clothing (i.e. Military BDU / ACU) is worn. Note: UTM strongly recommends for optimum protection that two layers of loose fitting clothing be worn.



FULL HEAD & BODY COVERAGE FOR MMR FORCE-ON FORCE TRAINING

UTM Face Mask

P/N 69-0304 NSN: 8415-99-359-9160



*Goggles

Use UTM Approved Goggles Only



UTM Protective Gloves

P/N 69-0310 NSN: 8415-99-839-0140



ALWAYS PERFORM A BUDDY CHECK, "ALWAYS CHECK TWICE"!! (ACT) 

* Additional info on UTM recommended and approved Personal Protective Equipment PPE, can be found on the back of this sheet.

For Ordering information Contact UTM Sales:

UTM USA Sales
Toll Free: 1-877-886-7233
Phone: 908-725-9000
Fax: 908-725-0457

UTM US Military Sales & Training
Phone: 908-725-9000
Fax: 908-725-0457

UTM ROW Sales
Phone: +44 (0) 1638-711003
Fax: +44 (0) 1638-510627

UTM Approved & Recommended Personal Protective Equipment			
Item	Manufacturer/ Vendor	P/N	UTM P/N
Approved Goggles			
UTM ESS Training Frame <i>**Required For All ESS Goggles Listed</i>	ESS	TBA	69-0313
UTM ESS Profile NVG <u>With</u> Training Frame**	ESS	EP01BK3-NL	69-0578
UTM ESS Profile Turbo Fan <u>With</u> Training Frame**	ESS	EP01BK1-TRA	69-0579
510-TN Goggles	Paulson	510-TN	N/A
Commando	Bolle	BE-100170010	69-0294
Oakley A Frames	Oakley	02-550	69-0308
A-TAC 510-TN 'Hawk'	Paulson	9500100	69-0300
US Service Issue Sand Wind & Dust Goggles	Stemaco Products Inc.	NSN: 8465-01-328-8268	
Face and Throat Protection			
<i>Note: UTM Face Masks provide Face & Throat protection</i>			
UTM Face Mask (Half Mask with Brow)	UTM	N/A	69-0304
UTM Face Mask with mounted ESS NVG in Frame (Half Mask with Brow)	UTM	N/A	69-0314
UTM Face Mask with mounted ESS NVG Turbofan in Frame (Half Mask with Brow)	UTM	N/A	69-0315
Head Protection			
PASGT Style Plastic Helmet	UTM	KSH010305	69-0311
Gloves			
Gauntlet Gloves	UTM	N/A	69-0317
Body Protection			
Groin Protector	UTM	N/A	69-0299
For any questions on UTM recommended and approved Personal Protective Equipment PPE, contact a UTM sales representative.			

SPECIAL NOTES

UTM Training Munitions are designed for Law Enforcement, Military, and Professional Training Organization use only. UTM Training Munitions are intended ONLY for use in supervised law enforcement and military training, conducted in accordance with UTM's guidelines for use and safety recommendations.

- UTM Training munitions are intended to be used in only supervised training exercises that are conducted in accordance with all UTM user safety guidelines and agency guidelines for training.

UTM Protective Face Mask
NSN: 8415-99-359-9160 (P/N: 69-0304)

NOTICE:

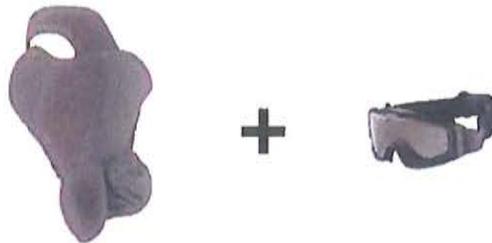
The UTM Face Mask Fitting & Care Instruction Sheet should be fully read and understood prior to any use and/or cleaning of the UTM Face Mask.

1. INTRODUCTION

a. **DESIGN.** The UTM Protective Face Mask (P/T No 69-0304) was developed in conjunction with military and law enforcement customers to provide protection against the UTM Man-Marker Round (MMR) in Force-on-Force training. The UTM Protective Face Mask acts as face and throat protection that provides the wearer a light weight and fully breathable protective solution, allowing full facial flexibility in all climatic conditions. NOTE: It is mandatory that UTM approved Goggles be worn with the UTM Face Mask.

2. MANDATORY EYE PROTECTION REQUIREMENTS

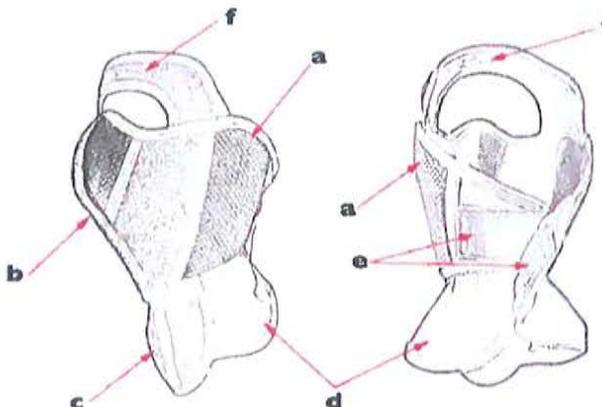
a. **CAUTION.** UTM approved eye protection (Goggles) must be worn in combination with the UTM Face Mask to achieve adequate personal protection for Force-on-Force Training Exercises conducted with UTM Man-Marker Rounds.



b. **WARNING.** When training with UTM Man-Marker Rounds, in a Force-on-Force capacity it is mandatory that all users and bystanders in the training area wear the UTM Face Mask with UTM approved EYE protection (goggles). NOTE: When training with UTM MMR, there are to be NO areas on your persons with exposed skin.

3. NOMENCLATURE

- a. Ear Panels
- b. Nose/Mouth Section
- c. Neck Flap
- d. Throat Protector
- e. Velcro Panels
- f. Brow Band



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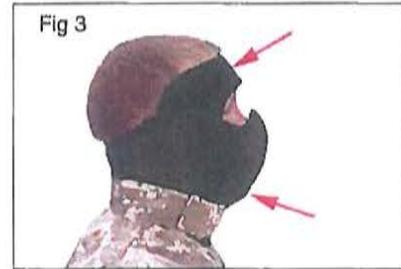
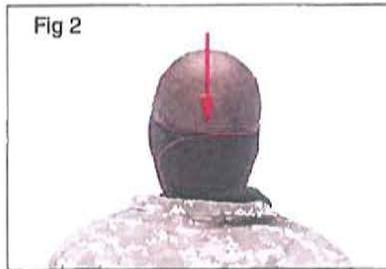
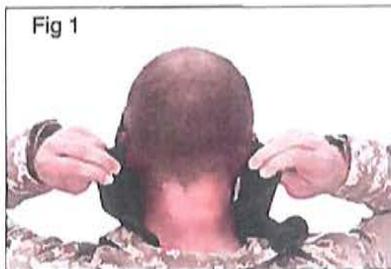
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4. FITMENT

SAFETY RECOMMENDATION: A 'Buddy-Buddy' system should be used when fitting the face mask and protective gear. This is where a second person verifies your personal protective equipment and clothing are correctly fitted.

SPECIAL NOTE: When fitting the face mask the mask should not be in contact with the nose or mouth. There is an intentional 'stand off' area incorporated into the Nose and Mouth of the UTM Face Mask design to allow for impact protection.

- a. Grasping the masks Velcro panels, (Fig 1) one with each hand, place the mask onto the face, slowly pulling the mask tight by pulling the Velcro panels around the head. Ensure you achieve a snug fit around the chin line and the forehead area.
- b. Fasten the Velcro panels by overlapping the right panel over the left panel. (Fig 2) Be sure to press down firmly on the panel to ensure the Velcro is securely attached.
- c. Confirm the face mask is seated correctly on the forehead and chin (Fig 3).



WARNING !

INCORRECT FITMENT. If the Velcro panels are secured, too high on the back of the neck and/or the head, the face mask material can bow out in the area around the eyes. This condition could interfere with the fitment of goggles and cause an incorrect and unsafe fit.



- d. Tuck the masks Neck Gator (Fig 4) followed by the Throat Protector (Fig 5) into the collar of the BDU/ACU jacket.
- e. Fully button and/or zipper the collar of the BDU/ACU ensuring that there is no exposed skin. Makes sure you have maintain a free range of movement with the Protective Mask fitted (Fig 6).



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5. FITTING HELMET

- a. Place the helmet onto the head making sure the brow band of the face mask does not push down over the eyes.
- b. Fasten the helmet's chin strap. It may be necessary to adjust the chin strap on the helmet to accommodate for the thickness of the face mask material. You must insure the helmet chin strap fits snugly on the chin.

6. FITTING GOGGLES

- a. Fit UTM approved goggles over the eyes, ensuring the goggles sit on top of the face mask material. Verify that the goggles frame overlaps the face masks material, ensuring there are no areas of exposed skin or gaps.
- b. Pull the goggle strap over the back of the helmet. (Fig 7) It may be necessary to adjust the length of the goggle strap to ensure a snug fit of the goggles on the mask. Check that the goggle strap is placed high enough on the helmet so the goggles are held in place under the brim of the helmet (Fig 8).



7. THE 'BUDDY-BUDDY' CHECK

- a. Apply the 'Buddy-Buddy' check to verify all PPE is correctly fitted, ensuring there are no exposed areas of skin (Fig 9).
- f. Move your head around though a full range of motion checking for proper fit, making sure the combination of the Helmet, Goggles and Face Mask feel comfortable and maintain in position to provide full coverage, with no exposed skin.
- b. Pay special attention to the fit of the goggles in relationship to the face mask making sure that there is no exposed areas of skin. The goggles must fit over top of the face mask material.
- c. Once all Safety checks have been performed, you are ready to safely participate, or observe Force-on-Force Training with the UTM Man-Marker Ammunition System.



REMEMBER, "ALWAYS CHECK TWICE"!! (ACT) ✓✓

WARNING

Whenever training with UTM Man-Marker Rounds, it is mandatory that all personnel in the training area wear the UTM FACE MASK and UTM approved EYE protection (goggles), as well as protective GLOVES capable of handling the impact energies of the UTM MMR.. It is also recommends that Groin protection be worn. When training with UTM MMR there are to be no areas of exposed skin and it is imperative that while training is in action protective gear, specifically your goggles are kept in position.

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8. CARE INSTRUCTIONS

The UTM Protective Face Mask is intended to be issued as an item of personal protective equipment (PPE). The UTM Face Mask must be cleaned and sanitized upon completion of training.

- a. **WASHING.** The UTM Face Mask can not be properly sanitized by the use of disinfectant wipes or sprays. The recommended cleaning method to adequately sanitize the UTM Face Mask is through washing with the use of domestic washing detergent.
- b. Prior to washing, firmly close the masks Velcro panels. Closing of the Velcro will prolong the life of both the face mask and the Velcro panels.
- c. Wash the UTM Protective Face Mask @ 40°C/ 104°F (warm wash) with domestic washing detergent.

NOTE: Do not use bleach and do not Dry Clean the UTM Face Mask.

- d. **DRYING.** To prevent possible damage from incorrect heat settings, UTM recommends that the UTM Face Mask is not tumble dried, and that it be allowed to air-dry / line-dried. If the mask is tumble dried it should be done on a low heat / delicate cycle only.
NOTE: Do not use an Iron on the face mask.



UTM provides the world's safest, most accurate, training ammunition, and fail-safe weapon conversion kits. UTM acknowledges the fact that safety is the most important aspect of weapons handling and all firearms training **Normal Safety Precautions (NSP's) need to be well thought out and user / agency specific hence, following local training / instruction documentation is paramount. UTM believes safety is a mind-set and that safety is everyone's responsibility.**

UTM firmly believes that it is the user's responsibility to read the Recommended Guidelines for Use on the reverse of UTM's 5.56mm **Man-Marker Round (MMR) Technical Data Sheet (TDS) before commencing or engaging in scripted, scenario based "**Force-on-Force**" Training Exercises with UTM **MMR**. These are important relative to the safe and efficient usage of UTM **Man-Marker Rounds** in training engagements.**

Anything less than total enforcement of all safety precautions is unacceptable!

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