

## Recent Issues with the Use of MatchKing Bullets and White Phosphorous Weapons in Iraq

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### Introduction

Recently, issues have arisen about the use of certain weapons in Operation Iraqi Freedom (OIF). This article discusses two of these weapons: MatchKing bullets and white phosphorous (WP). Though neither of these weapons is new, their continued use has sparked some debate as to their legality.

### MatchKing Bullets

The validity of the continued use of MatchKing bullets by U.S. Soldiers in OIF was recently disputed. Until resolution of this dispute, Soldiers in Iraq believed they were required to use other, less accurate ammunition.<sup>1</sup>

In 1985, judge advocates (JAs) from the Army, Air Force, and Navy reviewed for compliance with the law of war MatchKing bullets, ammunition often used by military snipers.<sup>2</sup> The legal review discussed principally the Hague Declaration Concerning Expanding Bullets (The Hague Declaration)<sup>3</sup> as well as the basic principle of international law most applicable to the use of MatchKing bullets: unnecessary suffering.<sup>4</sup>

The Hague Declaration prohibits “the use of bullets which expand or flatten easily in the human body, such as bullets with a hard envelope that does not entirely cover the core or is pierced with incisions.”<sup>5</sup> While the United States has not ratified The Hague Declaration, the United States has taken the position that its military forces will abide by the principles of the Hague Declaration.<sup>6</sup> The underlying bases for the Hague Declaration’s prohibition are taken from principles contained in Hague Convention IV, Respecting the Laws and Customs of War on Land, particularly the principle of unnecessary suffering.<sup>7</sup>

The principle of unnecessary suffering prohibits the use of “arms, projectiles, or material calculated to cause unnecessary suffering.”<sup>8</sup> There is a mens rea element built into the prohibition. If the weapon is designed primarily to kill and not to make an individual suffer (although suffering will necessarily occur in the process), the weapon does not violate the

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<sup>1</sup> See Bill Gertz & Rowan Scarborough, *Inside the Ring, Sniper Punished*, WASH. TIMES, Jan. 27, 2006, at A06, available at <http://www.gertzfile/gertzfile/ring012006.html>.

<sup>2</sup> See Memorandum, W. Hays Parks, Colonel, USMCR, Special Assistant to The Judge Advocate General of the Army for Law of War Matters, to Commander, United States Army Special Operations Command, subject: Sniper Use of Open-Tip Ammunition (Sept. 23, 1985), available at <http://www.thegunzone.com/opentip-ammo.html> [hereinafter Parks Memo].

<sup>3</sup> The Hague Declaration Concerning Expanding Bullets, July 29, 1899, 1 AM. J. INT’L L. 157-59 (Supp.) [hereinafter The Hague Declaration].

<sup>4</sup> Hague Convention IV, Respecting the Laws and Customs of War on Land art. 23e, Oct. 18, 1907, 36 Stat. 2277, T. S. 539 (entered into force Jan 26, 1910) [hereinafter Hague Convention], reprinted in INT’L & OPERATIONAL L. DEP’T, THE JUDGE ADVOCATE GENERAL’S LEGAL CENTER & SCHOOL, U.S. ARMY, LAW OF WAR DOCUMENTARY SUPPLEMENT (2006) [hereinafter 2006 DOC. SUPP.]; see also Parks Memo, *supra* note 2, sec. 3; Protocol Additional to the Geneva Conventions of 12 August 1949, and Relating to the Protection of Victims of International Armed Conflicts (Protocol I) art. 35(2), June 8, 1977, 1125 U.N.T.S. 3, reprinted in 2006 DOC. SUPP., *supra*. The United States has not ratified Protocol I but does acknowledge certain paragraphs reflect customary international law and are therefore binding upon the United States and its military forces. See Parks Memo, *supra* note 2, sec. 3; see also Memorandum, Office of the Secretary of Defense, to Mr. John H. McNeill, Assistant General Counsel (International), subject: 1977 Protocols Additional to the Geneva Conventions: Customary International Law Implications (May 8, 1986), reprinted in INT’L & OPERATIONAL L. DEP’T, THE JUDGE ADVOCATE GENERAL’S LEGAL CENTER & SCHOOL, U.S. ARMY, LAW OF WAR DOCUMENTARY SUPPLEMENT (2005) [hereinafter 2005 DOC. SUPP.]; Michael J. Matheson, *The United States Position on the Relation of Customary International Law to the 1977 Protocols Additional to the 1949 Geneva Conventions*, 2 AM. U. J. INT’L. & POL’Y 419, 427-28 (Jan. 22, 1987), reprinted in 2006 DOC. SUPP., *supra*.

<sup>5</sup> The Hague Declaration, *supra* note 3.

<sup>6</sup> See Parks Memo, *supra* note 2.

<sup>7</sup> See *supra* note 4 and accompanying text.

<sup>8</sup> Hague Convention, *supra* note 4, art. 23e.

prohibition against unnecessary suffering, as long as the weapon is used in accordance with its intended design. Thus, the principle of unnecessary suffering requires a balancing between the military's need for the weapon and the weapon's effects on the intended target. The suffering caused by the weapon may not be unnecessary or excessive in relation to the military benefit derived from its use.<sup>9</sup>

MatchKing bullets, which are commonly referred to as "open-tip" bullets, are often confused with hollow-point ammunition that is designed to flatten upon impact.<sup>10</sup> Open-tip bullets, however, are designed primarily for accuracy and not to flatten upon impact.<sup>11</sup> In fact, open-tip bullets are not recommended for hunting because they do not flatten upon impact and kill their target quickly enough.<sup>12</sup>

Because the design of the open-tip bullet does not force the bullet to expand and flatten upon impact with soft tissue, it violates neither The Hague Declaration nor the principle of unnecessary suffering. United States forces use open-tip bullets to kill a target, not to injure unnecessarily. "The military necessity for its use – its ability to offer maximum accuracy at very long ranges – is complemented by the high degree of discriminate fire it offers in the hands of a trained sniper."<sup>13</sup> Not only do open-tip bullets comply with the principle of unnecessary suffering, but the sniper's ability to discriminate between civilians and combatants on the battlefield is enhanced due to the open-tip bullet's accuracy. Accordingly, U.S. snipers may lawfully use open-tip bullets in combat.

Perhaps the most important lesson learned from the dispute and temporary impediment to military snipers was that if a Soldier questions a JA about the validity of a weapon's use in combat, the first determination the JA must make is whether the weapon was issued through standard supply channels. If the answer to that inquiry is affirmative, JAs should assume that the weapon is lawful. Each weapon, including a weapon's ammunition, is reviewed for compliance with the law of war before being issued to U.S. troops.<sup>14</sup> If weapons are not obtained through standard supply channels, JAs have reason to worry and question their use. If questions or concerns persist, a JA should contact the International and Operational Law Division, Office of the Judge Advocate General (OTJAG) for further guidance.

## WP

The use of WP by the U.S. military in Fallujah, Iraq in 2005<sup>15</sup> led to numerous articles and media presentations on the appropriateness of its use.<sup>16</sup> Many of the articles concluded that the United States violated international law by using WP against civilians or military targets.<sup>17</sup> In their attempts to condemn the U.S. military's use of WP, the articles seem to have misquoted or misinterpreted international law.

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<sup>9</sup> Parks Memo, *supra* note 2, sec. 3.

<sup>10</sup> *Id.* sec. 4. Open-tip bullets, as the name suggests, have a slight aperture at the point of the metal jacket, but the bullet's core is often not affected. A hollow-point bullet's core is actually bored into or "hollowed," which allows the bullet to flatten upon impact. A hollow-point bullet may be an open-tip bullet as well, but not necessarily. Thus, not all open-tip bullets are hollow-points and not all hollow-points are open-tip bullets. See Corbin, *Bullet Designs*, <http://www.corbins.com/design.htm> (last visited Aug. 2, 2006) (giving a technical description of the fabrication of different types of bullets).

<sup>11</sup> Parks Memo, *supra* note 2, sec. 4.

<sup>12</sup> *Id.*

<sup>13</sup> *Id.* sec. 7.

<sup>14</sup> U.S. DEP'T OF DEFENSE, DIR. 5000.1, THE DEFENSE ACQUISITION SYSTEM para. E1.1.15 (12 May 2003).

<sup>15</sup> Reynolds, *infra* note 22 (referring to the use of WP to flush combatants out of hiding into the open where they could be more easily killed); see also Captain James T. Cobb, First Lieutenant Christopher A. LaCour, & Sergeant First Class William H. Hight, *TF 2-2 in FSE, AAR: Indirect Fires in the Battle of Fallujah*, FIELD ARTILLERY, Mar.-Apr. 2005, at 26 (discussing the physical and psychological effects of the use of WP).

<sup>16</sup> See, e.g., George Monbiot, *Comment and Debate: Behind the Phosphorus Clouds Are War Crimes Within War Crimes*, GUARDIAN, Nov. 22, 2005, at 31; Scott Shane, *Defense of Phosphorus Use Turns into Damage Control*, N.Y. TIMES, Nov. 21, 2005, at 14; *U.S. Admits Iraq Phosphorus Attacks*, AUSTRALIAN, Nov. 18, 2005, at 9.

<sup>17</sup> See articles cited *supra* note 16.

Concerns regarding the use of WP in combat come from the following two main treaty sources: the Chemical Weapons Convention (CWC)<sup>18</sup> and Protocol III of the Convention on Certain Conventional Weapons (CCW).<sup>19</sup> The United States is a party to the CWC but has not ratified the applicable protocol of the CCW.<sup>20</sup>

## CWC

If WP were a chemical weapon, then its use, in some circumstances, may be prohibited by the CWC. The CWC classifies chemical weapons as the following: “[m]unitions and devices, specifically designed to cause death or other harm through the toxic properties of . . . toxic chemicals . . . which would be released as a result of the employment of such munitions and devices.”<sup>21</sup> White phosphorus, on the other hand, is not deployed for its toxic effects, but rather for its thermal effects. It is primarily used as a smoke screen or an illuminant.<sup>22</sup> Based upon that use and the purpose behind the CWC, the Organisation for the Prohibition of Chemical Weapons, the treaty-implementing body of the CWC, states:

Incendiary agents such as napalm and phosphorus are not considered to be C[hemical] W[eapon] agents since they achieve their effect mainly through thermal energy. Certain types of smoke screen may be poisonous in extremely high concentrations but, nonetheless, smoke ammunition is not classed as a chemical weapon since the poisonous effect is not the reason for their use.<sup>23</sup>

White phosphorus, even when not used as a smoke screen or as an illuminant, is used for its thermal effects (i.e., to burn or deprive the enemy of oxygen). Therefore, in spite of the obvious fact that WP is a chemical, it is not classified as a chemical weapon under the CWC and the Convention’s prohibitions do not apply to its use.

## CCW

The CCW primarily prohibits the use of incendiaries against or in concentrations of civilians.<sup>24</sup> The CCW defines an incendiary as “any weapon or munition which is *primarily designed* to set fire to objects or to cause burn injury to persons through the action of flame, heat, or combination thereof, produced by a chemical reaction of a substance delivered on the target.”<sup>25</sup> “Incendiary weapons do not include: (i) Munitions which may have incidental incendiary effects, such as illuminants, tracers, smoke or signaling systems.”<sup>26</sup> Even though WP is primarily designed to be used as a smoke screen or illuminant,<sup>27</sup> it has been used for other purposes, such as in Fallujah where it was used to flush combatants out of hiding.

<sup>18</sup> Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction, Jan. 13, 1993, 32 I.L.M. 800 (1993) [hereinafter CWC].

<sup>19</sup> Convention on Prohibitions or Restrictions on the Use of Certain Conventional Weapons Which May Be Deemed to Be Excessively Injurious or to Have Indiscriminate Effects, Oct. 10, 1980, 1342 U.N.T.S. 137 [hereinafter CCW].

<sup>20</sup> *United Nations Multilateral Treaties Deposited with the Secretary-General*: Status as at 31 December 2005, U.N. Doc. ST/LEG/SER.E/23.

<sup>21</sup> CWC, *supra* note 18, art. II(1)(b).

<sup>22</sup> See, e.g., U.S. DEP’T OF ARMY, FIELD MANUAL 3-11.9, POTENTIAL MILITARY CHEMICAL/BIOLOGICAL AGENTS AND COMPOUNDS tbl. III-18 (Jan. 2005) (showing the chemical properties of phosphorus and its primary use as a smoke screen); Kathleen Hennrikus, *Answers About White Phosphorus*, BOSTON GLOBE, Nov. 17, 2005, available at [http://www.boston.com/news/nation/articles/2005/11/17/answers\\_about\\_white\\_phosphorus/](http://www.boston.com/news/nation/articles/2005/11/17/answers_about_white_phosphorus/); Paul Reynolds, *White Phosphorus: Weapon on the Edge*, BBC NEWS Nov. 16, 2005, available at <http://news.bbc.co.uk/1/hi/world/americas/4442988.stm> (quoting Peter Kaiser, a spokesman for the Organisation for the Prohibition of Chemical Weapons (OPCW), the treaty-implementing body of the Chemical Weapons Convention, on the lawful use of white phosphorus); GlobalSecurity.org, Legal Status of Incendiary Weapons, <http://globalsecurity.org/military/systems/munitions/incendiary-legal.htm> (last visited Aug. 2, 2006). But see U.S. DEP’T OF ARMY, FIELD MANUAL 3-50, SMOKE OPERATIONS app. G, at 96 (4 Dec. 1990) (stating that phosphorus smoke is “excellent for harassing enemy personnel and starting fires”).

<sup>23</sup> Organisation for the Prohibition of Chemical Weapons, Chemical Warfare Agents, <http://www.opcw.org/resp/html/cwagents.html> (last visited Aug. 2, 2006). In spite of the use of the term “incendiary agent” in the quote (in the context of discussing chemical weapons), white phosphorus may not be an incendiary agent (used as a term of art) as defined by the CCW, discussed *infra*.

<sup>24</sup> See Convention on Indiscriminate Weapons, Protocol on Prohibitions or Restrictions on the Use of Incendiary Weapons (Protocol III) art. 2, Oct. 10, 1980, 19 I.L.M. 1534 (1980) [hereinafter Protocol III].

<sup>25</sup> *Id.* art. 1, para. 1 (emphasis added).

<sup>26</sup> *Id.* art. 1, para. 1(b).

<sup>27</sup> See *supra* note 22.

Therefore, one may argue that because WP is primarily designed to be used as a smoke screen, it does not meet the definition of an “incendiary” under the CCW.<sup>28</sup> If WP is not an incendiary weapon, then the CCW does not prohibit its use.

Even if WP were classified as an incendiary weapon under the definition supplied by the CCW, the use of the weapon is not per se unlawful. Again, the CCW prohibits the use of incendiary weapons in proximity to or against civilians.<sup>29</sup> Other uses of incendiary weapons are not prohibited by the CCW. Therefore, if the United States were a party to the CCW and WP were considered an incendiary weapon, the United States would still be able to use WP against combatants who are not among concentrations of civilians.

In addition to the CWC and the CCW, the principle of unnecessary suffering must still be considered. The use of WP would be unlawful, even against combatants, were it used specifically to cause suffering rather than for a recognized, valid purpose. The mere fact that WP may cause a combatant to suffer, however, does not mean that WP causes unnecessary suffering when considered in light of the military benefit to be gained from its use.

### Summary

White phosphorus may be used lawfully by the United States as long as it is not used in a manner calculated to cause unnecessary suffering. Its use does not violate any U.S. treaty obligations. It is not classified as a chemical weapon and, even if the United States were a party to the CCW, the United States would still be able to use WP as long as it did not do so against or in concentrations of civilians.

Just because a weapon is lawful, does not necessarily make it advisable. The “shake ‘n bake”<sup>30</sup> method of using WP in Fallujah may have been effective, but the ramifications of its use, felt throughout the international community and in the United States, were great. That does not mean that WP should not have been used in Fallujah; however, it is our duty as JAs to not only inform the commander of the legality or illegality of the use of a given weapon, but also to inform the commander of the practical consequences of its use. Only then can the commander make a properly informed decision about what weapons to employ.

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<sup>28</sup> See also W. Hays Parks, *The Protocol on Incendiary Weapons*, INTERNATIONAL REVIEW OF THE RED CROSS, Nov.– Dec. 1900, No. 279, at 544.

<sup>29</sup> See Protocol III, *supra* note 24.

<sup>30</sup> See *supra* note 15 and accompanying text.