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Warsaw Pact: The Threat Potential of Selected Toxins

Interagency Intelligence Memorandum Volume I: Key Judgments and Summary

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NI IIM 85-10002/I

WARSAW PACT: THE THREAT POTENTIAL OF SELECTED TOXINS

VOLUME I: KEY JUDGMENTS AND SUMMARY

Information available as of 24 January 1985 was used in the preparation of this Memorandum.



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CONTENTS

P	age	
SCOPE NOTE	1	
KEY JUDGMENTS	3	
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SCOPE NOTE

Toxins form part of a spectrum of chemical and biological warfare (BCW) threat agents, with biological organisms at one end and traditional chemical agents at the other. Toxins are substances which originate(d) in biological sources and can, without significant chemical modification, cause damage to a living organism. Toxins are not living; they do not reproduce themselves. Many chemicals also produce direct injury to living systems but differ from toxins in that they are produced by synthesis outside of living organisms. Because of recent technological advances there is an increased possibility of also producing toxins in the absence of living organisms. These synthetically produced products would still be considered toxins as long as they are identical to the naturally occurring toxins

Considerable effort is now being expended in the United States to develop defensive measures against toxins.

Some members of the intelligence and R&D communities believe that other toxins may in fact pose the greater threat to US and NATO forces. Therefore, this assessment was undertaken to define the toxin threat to the United States and NATO as accurately as possible and to provide background information to the policy community in their dealings with questions of treaty verification and arms control negotiations.

To accomplish this analysis we developed a systematic method that is applicable to assessment of the BCW potential of any compound and that also allows ready reevaluation of toxins (or other compounds) as new data are obtained. (b)(3)

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	Why Choose Toxins?	
Previous traditional goals to be in question political cor tion, may be Several to petitive with — Some so) as s least as	analysis ^a shows that choice of a toxin chemical agent most likely depends achieved and the properties of the m . Vulnerability of the opponent as v isiderations, such as the likelihood of e deciding factors. oxins have properties that make them h traditional chemical warfare agents: toxins are as toxic and fast acting (or tandard CW agents, and can be produ	vice a on the aterial vell as detec- (b)(3) a com- more ced at gents
— Use of to estal	toxins in limited warfare may be di blish because many toxins occur natur	gents. fficult 'ally.
		(b)(1) (b)(3)
	e and handling requirements for toxin emanding than those for standard apons may proliferate and their use re widespread. More advanced cou r limited use of toxins an attractive of the difficulty of detection, identific f use. Developing countries may cor oduction and use of such weapons	ns are CW (b)(3) may ntries ption ation, ne to as a
their conven countries ma developing th	eap, easy, and effective way to aug tional weapons capability. Some of y turn to the Soviet Union for assistan hat capability.	ment these ice in (b)(3) (b)(1) (b)(3)



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KEY JUDGMENTS

The Warsaw Pact is capable of fielding some toxins at present, but there is no single toxin or group of toxins that can be identified technically or through intelligence as posing the greatest threat to US forces. Toxins that fulfill the technical criteria (such as toxicity, persistence, and so forth) required by each possible operational application, as well as the intelligence criteria (such as capability, RDT&E interest, and so forth) that raise the toxins to threat status, come from a variety of sources and have a variety of physical and chemical properties.

There is no one toxin that is outstanding for all operational uses, nor is there any one operational application for which any (or all) toxin(s) would be totally appropriate. After consideration of both technical factors and intelligence reporting, we were able to identify five toxins (of the 30 we selected for inclusion in this analysis) that have the greatest immediate threat potential. These toxins showed the broadest operational utility, have been linked through intelligence reporting to Warsaw Pact biological and chemical warfare (BCW) interests, and could be produced and weaponized in the Warsaw Pact using current technology.

These toxins have few similarities beyond their common satisfaction of likely operational requirements,

We believe that the Warsaw Pact is conducting research, led by the Soviets, in several areas in an apparent effort to expand its potential capability to conduct BCW operations employing toxins. We believe that the composition and magnitude of the toxin threat will change in the future as research developments are applied. The diversity of potential agents and the fluidity of the threat may require development of generic, rather than agent-specific, countermeasures.

This publication was prepared under the auspices of the National Intelligence Officer at Large. It was drafted by ______ Central Intelligence Agency, and coordinated within CIA and with the Foreign Science and Technology Center, the Armed Forces Medical Intelligence Center, the Foreign Technology Division, the Naval Intelligence Support Center, and the Chemical Research and Development Command.



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Use Concepts

Considering the various tactical	situations in	ı which	chemicals	might	be	employed,	the
following use concepts were envision	oned:						

1a. Direct attack or defense against an opposing enemy unit.

1b. Softening attack against an opposing enemy unit.

1c. Harassing and interdiction attack against an opposing enemy unit.

2. Offensive use against an enemy unit on the flank of a blocking unit.

3. Offensive or defensive use against a division rear area unit.

4. Chemical barriers to units occupying or traversing critical terrain.

5. Terrain restriction.

- 6a. Deep interdiction on enemy service logistic centers, naval facilities, and airbases (harassment).
- 6b. Deep interdiction on enemy service logistic centers, naval facilities, and airbases (suppression).
- 6c. Deep interdiction on enemy service logistic centers, naval facilities, and airbases (elimination).

7. Strategic use against general population.

8. Strategic use against industrial base.

9. Mopup of military remnants or encircled units.

10. Hit-and-run use by guerilla forces, terrorists, and special-purpose forces.

11. Boobytraps on transportation routes or critical areas.

12. Sabotage of critical-government, military, or industrial installations.

13. Terrorist or punitive action against military or civilian installations.

14. Direct attack against floating platforms, ships at sea.

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