## **BASIC PRODUCTS CATALOG — Summer 2004**







A Department of Defense Sponsored Information Analysis Center

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#### INTRODUCTION

The CBIAC, operated by Battelle Memorial Institute, is a full service Department of Defense (DoD) Information Analysis Center (IAC) under contract to the Office of the Secretary of Defense and administratively managed by the Defense Technical Information Center (DTIC) under the DoD IAC Program Office. Established in 1986, the CBIAC serves as the focal point for Chemical and Biological (CB) Defense technology.

The CBIAC produces a variety of hardcopy and multi-media products, which represent CB Defense "hot" areas, referred to as CBIAC Basic Products. The various categories of CBIAC Basic Products are explained below.

### **CBIAC Basic Products**

- Critical Reviews (CRs) and Technology Assessments (TAs): CRs are evaluations of the most recently available information on a specific aspect of research and development that has applicability in the CB Defense arena. TAs are comparative analyses and appraisals based on technical characteristics.
- > Databases: Databases are repositories of data that are organized for rapid electronic search, selection and retrieval.
- > Handbooks and Databooks: Handbooks are authoritative analytical products that provide detailed technical data and profiles for a select category of CB Defense equipment or technology. Databooks are compilations of test and evaluation data for a specific aspect of CB Defense research and development.
- > Proceedings: Proceedings are compilations of papers presented at conferences and symposia.
- > State-of-the-Art Reports (SOARs): SOARs are comprehensive analysis products on the status of a technology in a given subject area.
- > Training Aids: The CBIAC designs and produces CB Defense training materials such as training kits and CD-ROM multimedia products, based on user needs.

## **Ordering Information**

This **CBIAC Basic Products Catalog** provides product titles, reference numbers, media, prices, distribution limitations, publication dates, descriptions and a *Products Order Form* for CBIAC products that have been approved for dissemination. To place a product order through the CBIAC, please detach the CBIAC *Products Order Form* included on the back page of this catalog and submit it via fax or mail to the attention of the Products Administrator, or complete the Product Request Form on the CBIAC web site.

#### **Payment Methods**

The CBIAC accepts payment in a variety of forms, including checks or money orders made payable to Battelle, (U.S. dollars only), purchase order (from U.S. Government agencies only), or credit card (including VISA, MasterCard, and American Express).

### Response Time

Orders will be filled on a first-come, first-served basis upon receipt of payment in full, unless otherwise specified. Please allow up to 4 to 6 weeks for delivery.

#### PRODUCTS LIST

#### CRITICAL REVIEWS

**Emergency Decontamination Corridor and Ladder Pipe Decontamination Systems** 

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: CR-04-12

Price: \$2.00 Publication Date: May 2004 Media: Laminated Card Description: This laminated card provides guidelines for firefighters and emergency response personnel who must perform decontamination activities in response to a chemical or biological incident. The card addresses the advantages, disadvantages, requirements for, and set up of the emergency decontamination corridor system and the ladder pipe decontamination system. The card also provides site layout diagrams for each system.

## Quick Response Guidelines for a Suspected Chem/Bio Attack

Distribution Limitation: Unlimited: Unclassified

CBIAC Product Number: CR-04-11

*Price:* \$2.00 *Publication Date:* May 2004 *Media:* Laminated Card *Description:* This laminated card provides guidelines for firefighters and emergency response personnel who may have to deal with a chemical or biological incident. The card addresses enroute activities, scene assessment, and operations, and covers indicators of a chemical or biological attack, scene assessment and safety, victim identification and rescue, triage, decontamination, and chemical agent symptomology.

## The Psychological Effects of Weapons of Mass Destruction (WMD) on Military and Civilian Personnel

Distribution Limitation: U.S. Government Agencies and their Contractors; Unclassified

CBIAC Product Number: CR-04-10

Price: \$25.00 Publication Date: March 2004 Media: Paperback

**Description:** The objective of this CR is to provide data to assist in quantifying the ratio of psychological to physical casualties in a WMD incident. Data from a total of 16 events are reviewed and analyzed. This CR describes both short- and long-term psychological effects for civilian and military populations, with an emphasis on immediate psychological reactions in civilian populations. Although this report does not focus directly on consequence assessment and consequence management issues, the "lessons learned" from the case studies with respect to consequence assessment and consequence management are discussed.

## Law Enforcement Officers Guide for Responding to Chemical Terrorist Incidents

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: CR-03-09

Price: \$10.00 Publication Date: July 2003 Media: Paperback

(Up to 5 copies free to law enforcement agencies – contact CBIAC for details)

**Description:** This publication was developed by the RDECOM Improved Response Program for the Department of Justice, Office of Justice Programs. It provides law enforcement personnel with a quick reference guide on the basic aspects of identifying and responding to a terrorist chemical weapons incident. The Guide includes an Introduction, along with sections on Indicators of a Chemical Incident, Chemical Agent Information, Initial Response, Dispatcher's Role, Notifications, Scene Control, Decontamination, Incident Investigation, and Evidence Collection, along with References.

### Medical Aspects of Biological Agents

Distribution Limitation: Unlimited: Unclassified

CBIAC Product Number: CR-03-08

Price: \$10.00 Publication Date: July 2003 Media: CD-ROM

(Free downloads on the Products Overview page on our website)

Description: This CD-ROM contains briefings (with notes pages) on Anthrax, Bubonic Plague, Crimean-Congo Hemorrhagic Fever, Dengue, Ebola, Influenza, Japanese Encephalitis, Lassa, Marburg, Pneumonic Plague, Rift Valley Fever, SEB, Smallpox, St. Louis Encephalitis, and Tularemia. These presentations are part of a series developed by the CBIAC for the Medical NBC Staff at the Office of The Surgeon General, U.S. Army. The briefings address medical issues, both operational and clinical, of these agents, and were developed for use in briefing either medical or maneuver Commanders. Information in the presentations includes physical data on the agent, signs and symptoms, means of dispersion, treatment, and medical resources required, issues about investigational new drugs or vaccines, and epidemiological concerns. Notes pages have been provided for reference. Each briefing contains sections on Background, Battlefield Response, Medical Response, Command and Control, Summary, and References.

#### WMD Reference CDs

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: CR-03-07

Price: \$25.00 Publication Date: July 2003 Media: CD-ROM Set
Description: This 2 CD-ROM set was developed in cooperation with the Homeland Defense
Business Unit of RDECOM. The set offers a searchable collection of documents that highlights
different aspects of Weapons of Mass Destruction events and topics (Homeland Defense Business
Unit, Biological Weapons, Chemical Weapons, Emergency Management and Planning, Preventive
Measures, Decontamination, and Treatment, Homeland Defense and Terrorism, References) with a
Homeland Defense focus. The set features RDECOM Improved Response Program (IRP) products.

## **Chemical Agent Simulants and Associated Technologies**

Distribution Limitation: U.S. Government Agencies Only; Unclassified

CBIAC Product Number: CR-02-05

*Price:* \$25.00 *Publication Date:* April 2002 *Media:* Paperback *Description:* The purpose of this review is threefold: (1) To provide the reader with a basic understanding of the principles underlying the selection and use of chemical agent simulants; (2) To provide an overview of chemical agent simulant programs as they have evolved among nations world-wide with emphasis on the U.S. program and; (3) to provide an extensive list of information

resources for readers who wish to pursue this topic further.

# Joint Service Chemical and Biological Science and Technology Base Program in Decontamination

Distribution Limitation: U.S. Government Agencies and their Contractors; Unclassified

CBIAC Product Number: CR-01-04

Price: \$45.00 Publication Date: April 2001 Media: CD-ROM

**Description:** This CD-ROM contains the results of a literature search and market survey addressing wide area CB decontamination technologies equipment and projects, the Joint Science and Technology Chemical and Biological Decontamination Front End Analysis and Master Plan Report, and the Joint Science and Technology Chemical and Biological Decontamination Master Plan Summary. The contents will be of value to those working in the decontamination area. Adobe Acrobat Reader with Search® Version 4.05b is needed to view and search these documents; a copy of this version is provided on the CD-ROM.

#### Air Purification Technologies

Distribution Limitation: U.S. Government Agencies and their Contractors; Unclassified

CBIAC Product Number: CR-01-03

Price: \$25.00 Publication Date: February 2001 Media: Paperback

**Description:** A variety of air purification technologies exist and are used for both military and commercial uses. Certain of the technologies are more applicable to collective protection than to individual protection applications, based primarily on power requirements and size and weight. The expected maturity of technologies is also discussed; technologies in the R&D stage may not be available for near term individual and collective protection applications. A full range of current and emerging vapor separation and aerosol separation technologies are considered.

## Critical Review on Anti-Crop Biological Agents and Associated Technologies

Distribution Limitation: U.S. Government Agencies and their Contractors; Unclassified

CBIAC Product Number: CR-00-02

Price: \$25.00 Publication Date: September 2000 Media: Paperback

**Description:** This critical review, based on open literature sources, provides an extensive list of open literature information resources for readers who wish to pursue this area of inquiry further. Topics addressed include fungi, bacterial, and viral diseases, newly emerging diseases, and other related topics.

## Chemical Biological/Smoke Modeling and Simulation (M&S) Newsletter Compilation

Distribution Limitation: U.S. Government Agencies and their M&S Contractors: Unclassified

CBIAC Product Number: CR-00-01

Price: \$75.00 Publication Date: December 1999 Media: CD-ROM Description: This report contains the complete text of all 12 issues of the Chemical Biological/Smoke Modeling and Simulation (M&S) Newsletter, published from Spring 1995 through Fall 1999. These newsletters provide an excellent overview, review and summary of defense-related chemical, biological and smoke modeling and simulation activities during this period. Adobe Acrobat Reader (TM) is required to view the individual newsletters, which are presented as PDF files on two CD-ROMs.

## Wide Area Decontamination: CB Decontamination Technologies, Equipment and Projects

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: CR-99-10

Price: \$60.00 Publication Date: April 1999 Media: Paperback

**Description:** This report provides the reader with the results of a worldwide Chemical and Biological Wide Area Decontamination literature search and market survey along with a detailed assessment of existing equipment and technologies that may meet the needs of both military and domestic preparedness communities. The assessment also includes a detailed examination of the possible benefits of combining the equipment and technologies identified in order to create hardware solutions for immediate implementation.

# Determination of Optimum Sorbent Material for Collection and Air Desorption of Chemical Warfare Agents

Distribution Limitation: Unlimited: Unclassified

CBIAC Product Number: CR-99-09

Price: \$20.00 Publication Date: January 1999 Media: Paperback

**Description:** This Critical Review addresses the properties of sorbent materials that are critical to a successful detection, including collecting the chemical warfare agent efficiently from the air and successfully desorbing the agent upon heating for subsequent detection by gas chromatography. This product contains both a detailed review of sorbent technologies and the results of experimental studies on chemical warfare agent sorbents.

### **Demilitarization Technologies for Biological and Toxin Weapons**

Distribution Limitation: U.S. Government Agencies Only; Unclassified

CBIAC Product Number: CR-98-08

Price: \$25.00 Publication Date: September 1998 Media: Paperback

**Description:** This report provides the reader with a basic understanding of the history, principles, and procedures underlying the destruction (demilitarization) of biological and toxin weapons as discussed in the open literature. A survey of the open literature is presented to ascertain the current state of knowledge in this field. An extensive list of information resources is provided for those who wish to pursue the topic further.

## The Year 2000 Millennium Bug: A Chemical and Biological Defense Community Perspective *Distribution Limitation:* Unlimited: Unclassified

CBIAC Product Number: CR-98-07

Price: \$15.00 Publication Date: September 1998 Media: Paperback

**Description:** The Y2K problem was pervasive and may have affected the CB Defense community in several ways. Knowledge of the problem was essential in order to plan and implement actions to repair or replace hardware or software that may fail in this circumstance. This CR will provide information to aid both the DoD and its contractors, and provides specific references to the Y2K compliance status of various programs within the CB Defense community.

### The Emergency Responder's Ability to Detect Chemical Agents

**Distribution Limitation:** U.S. Government Agencies, their Contractors, State and Local Government Agencies; Unclassified

CBIAC Product Number: CR-98-06

Price: \$15.00 Publication Date: July 1998 Media: Paperback

**Description:** This critical review addresses the chemical agent detection and identification capability of emergency responders throughout the United States. Test data involving chemical warfare agents and commercial detection and identification devices are very limited, but a test program is currently under way. This Critical Review identifies the chemical detection equipment currently employed by emergency responders and discusses its usefulness for the detection and identification of chemical warfare agents.

# Critical Review of Surface Sampling Technologies for Volatilizing Liquid Chemical Agents *Distribution Limitation:* Unlimited; Unclassified

CBIAC Product Number: CR-98-05

Price: \$25.00 Publication Date: April 1998 Media: Paperback

**Description:** This critical review supports the XM279 surface sampler development program. It identifies and describes surface sampling technologies and equipment that could aid the M22 Automatic Chemical Agent Alarm in detecting volatile liquid chemical warfare agents on surfaces. This CR presents a technical evaluation of six preliminary design concepts and discusses future development of volatilization technologies.

## Critical Review of Non-Lethal Grenade Technologies and Lethality Evaluation Criteria

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: CR-98-04

Price: \$25.00 Publication Date: April 1998 Media: Paperback

**Description:** This critical review presents the results of a market investigation conducted to identify existing non-lethal technologies for integration into a 66 mm grenade for use with the Light Vehicle Obscuration Smoke System (LVOSS). This CR identifies and analyzes three specific non-lethal technologies and 12 existing non-lethal grenades. This report also identifies potential evaluation criteria for use in considering these technologies.

# Critical Review of Sources of Chemical and Physical Properties Data for Militarily Significant Compounds

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: CR-96-03

Price: \$60.00 Publication Date: May 1996 Media: Paperback

**Description:** This critical review provides information for locating chemical and physical property data for militarily significant compounds such as agents, decontaminants, degradation products, precursors and simulants. The report also provides information on how to acquire relevant data, cost and many valuable points of contact. Numerous World Wide Web (WWW) sites which provide Material Safety Data Sheets (MSDS) as well as suppliers of militarily significant compounds are also identified.

### A Critical Review of Sources of Spectral Data for Militarily Significant Compounds

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: CR-95-02

Price: \$20.00 Publication Date: December 1995 Media: Paperback

Description: This critical review provides information for locating spectral data such as Nuclear Magnetic Resonance (NMR) spectra, Infrared (IR) spectra and Mass Spectra (MS) for militarily significant compounds including agents, decontaminants, degradation products, precursors and simulants. Profiles are provided for technical reports, reference books and databases that met the selection criteria established for this review. Sample citations for the databases are included whenever possible. The appendices cross-reference individual compounds with the type of spectral data available in each database for that compound. The document also provides information on access requirements for the various information resources, cost and valuable points of contact.

# A Critical Review of Nuclear, Biological and Chemical Contamination Survivability (NBCCS) *Distribution Limitation:* Unlimited; Unclassified

CBIAC Product Number: CR-95-01

Price: \$20.00 Publication Date: April 1995 Media: Paperback

**Description:** This document provides the reader with the tools to understand the NBC criteria, the NBC materials selection process, the problems associated with the process, and what is being done to improve the process. This critical review provides a general overview as well as historical information on NBCCS regulations and their need. The review offers insight into the selection criteria for materials, provides a survivability analysis for some of the more commonly used materials and highlights some of the most widely used tests for determining NBCCS.

#### DATABASES/DATABOOKS

Chemical Sources Database and Databook: Toxicological Values for Catastrophic Release of Toxic Industrial Chemicals (Set)

Distribution Limitation: U.S. DoD Agencies Only; Unclassified

CBIAC Product Number: DBS-02-01

Price: \$125.00 Publication Date: July 2002 Media: CD-ROM/Paperback

Description: See below.

Chemical Sources Database: Toxicological Values for Catastrophic Release of Toxic Industrial Chemicals

Distribution Limitation: U.S. DoD Agencies Only; Unclassified

CBIAC Product Number: DB-02-01

Price: \$75.00 Publication Date: July 2002 Media: CD-ROM

**Description:** This database provides toxicological information on over 3200 chemicals (Tier I data) and over 400 chemicals (Tier II data) that may be of interest in a deployment situation. The database supports searching by chemical name and CAS number and provides toxicological reports on the chemicals covered. This CD-ROM contains an Access MDB file and a readme file. This DB is a companion to DBK-02-01 and contains the information in an electronic format.

## Chemical Sources Databook: Toxicological Values for Catastrophic Release of Toxic Industrial Chemicals

Distribution Limitation: U.S. DoD Agencies Only; Unclassified

CBIAC Product Number: DBK-02-01

Price: \$75.00 Publication Date: July 2002 Media: Paperback

**Description:** This databook provides toxicological information on over 3200 chemicals (Tier I data) and over 400 chemicals (Tier II data) that may be of interest in a deployment situation. The databook, an 11" by 17" paperback, contains an Introduction, sections on Tier I – Chemicals Sorted by CAS Number, Tier I – Chemicals Sorted by Tox Score, Tier II Chemical Data, and References. This DBK is a companion to DB-02-01 and contains the information in a hard copy format.

## Susceptibility of Aircraft Materials to Chemical Warfare Agents (Reprint)

Distribution Limitation: U.S. Government Agencies and their Contractors; Unclassified

CBIAC Product Number: DBK-99-02

Price: \$125.00 Publication Date: May 1999 Media: Paperback

Description: This Databook is a complete reprint of the original report, Susceptibility of Aircraft Materials to Chemical Warfare Agents, which received a limited issue on July 1, 1988. This Databook contains detailed information on the responses of 59 aircraft materials to the agents GD, VX, and HD. It is being issued as a service to the CB Defense community, and contains no information that was not present in the original publication. The CBIAC acknowledges the contributions of the authors of the original report, J.P. Pfau, P.E. Bailey, J.D. Booton, G. Frank, and R.J. Dick. The Battelle Memorial Institute staff, including the Polymer Center, made this reissue possible.

Physiological and Psychological Effects of the Nuclear, Biological, and Chemical Environment and Sustained Operations on Systems in Combat (P2NBC2) Database

Distribution Limitation: U.S. DoD Agencies and their Contractors; Unclassified

CBIAC Product Number: DB-97-01

Price: \$60.00 Publication Date: January 1997 Media: CD-ROM

**Description:** The P<sup>2</sup>NBC<sup>2</sup> Database was developed to archive data that was collected between 1985 and 1993 from 20 field tests sponsored by the P<sup>2</sup>NBC<sup>2</sup> program. Detailed information from 463 tasks performed in MOPP4 is formatted on CD-ROM. A PC with Windows required for operation of this database. A user manual explaining system requirements, installation procedures, database design, and a summary of the individual field trials is also provided on the CD-ROM. References for the actual test and evaluation documentation are included. The database was converted to Access in August 2002.

#### **Chemical Defense Materials Databook**

Distribution Limitation: U.S. DoD Agencies and their Contractors; Export-Controlled; Unclassified CBIAC Product Number: DBK-95-01

Price: \$10.00 Publication Date: April 1995 Media: Paperback

Description: The CBIAC, in cooperation with the Army Research Laboratory (ARL), has prepared the Chemical Defense Materials Databook. Updated since its initial distribution at the 1994 Contamination Survivability Symposium, the databook is an abridged paper version of the Chemical Defense Materials Database (CDMD). The databook is designed to offer insight into the selection criteria for materials by providing the user with industrial guidelines for material selection, as well as insight into the problems with the data. The databook is a handy quick reference to the important information found in the CDMD.

#### HANDBOOKS

#### BACWORTH Encyclopedia Version 6.2a

Distribution Limitation: U.S. Government Agencies Only; Export Controlled; For Official Use Only

CBIAC Product Number: HB-04-03

Price: \$175.00 Publication Date: January 2004 Media: CD-ROM

**Description:** The Biological and Chemical Warfare Online Repository and Technical Holdings (BACWORTH) Encyclopedia Version 6.2a contains detailed data on 86 CB agents, toxins, and riot control agents. Entries include both at-a-glance summaries and detailed description levels. There are also 16 overview functional chapters addressing critical CB defense topics in a non-agent specific format. The Encyclopedia cites more than 1,500 references. Each Agent entry covers 13 key topics.

## CB Terminology Handbook

Distribution Limitation: Unlimited: Unclassified

CBIAC Product Number: HB-99-03

Price: \$75.00 Publication Date: June 1999 Media: Paperback

Description: This handbook, consisting of over 400 pages, provides identifying properties and characteristics of biological agents, chemical agents, and toxins that are of concern within the CB Defense community. This Handbook was compiled to provide an overall description and quick reference of the subject matter covered. The biological agent section contains information on the diseases associated with biological agents, classification of the biological agents, and related topics. The chemical agent section contains information on the agent characteristics and effects, Chemical Abstracts Service (CAS) Number, physical properties, and related topics. The toxin section describes the toxin, the source of the toxin, its physical and chemical properties, and related properties.

# Worldwide Chemical Detection Equipment Handbook and Worldwide NBC Mask Handbook (Set of Both Handbooks)

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: HBS-98-03

Price: \$200.00

#### Worldwide Chemical Detection Equipment Handbook

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: HB-95-02

Price: \$150.00 Publication Date: September 1995 Media: Hardcover

Description: This handbook, consisting of over 400 pages, documents physical and performance specifications for over 90 chemical detectors and serves as a valuable resource for engineers and scientists involved in CB Research and Development (R&D) efforts, the intelligence community, the Chemical Weapons Convention (CWC) verification community, equipment evaluators, foreign Governments and embassies, news media, military libraries and information centers. In addition to details on specific detectors, it describes active and passive standoff detection technologies as well as the following point detection technologies: ionization/ion mobility; flame photometry; mass spectrometry; photoacoustic infrared spectroscopy; electrochemistry and enzyme and wet chemistry reactions used in detection kits, tickets and papers.

Worldwide NBC Mask Handbook

Distribution Limitation: Unlimited: Unclassified

CBIAC Product Number: HB-92-01

Price: \$75.00 Publication Date: September 1992 Media: Hardcover

**Description:** This handbook consists of over 400 pages containing nearly 100 NBC masks and canisters inventoried by physical and performance specifications. Data on the individual protection equipment from 22 countries representing NATO, the former Warsaw Pact and neutral nations is included. Photographs and drawings, many in color, are provided for most of the items identified. The chapters are divided into three sections: filtration, respirators, and references. The handbook is completely cross-referenced and includes equipment indices by country and by manufacturer. Numerous world-renowned NBC defense experts have provided inputs to this publication.

#### **PROCEEDINGS**

Proceedings of the CB Medical Treatment Symposium: An Exploration of Present Capabilities and Future Requirements for Chemical and Biological Medical Treatment

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: PR-95-02

Price: \$49.00 Publication Date: June 1995 Media: Paperback

Description: This book includes all technical papers and poster presentations given at the 1994 CB Medical Treatment Symposium held December 5-8, 1994 at the NC Laboratory, Spiez, Switzerland. Topics include Medical Treatment; New Agents (Development and Treatment); Medical Delivery Systems; Medical Aspects of Disarmament; and Biologicals, Toxins, and Vaccines. Representatives from Canada, China, Croatia, Czech Republic, Iran, Israel, Poland, Russia, Singapore, South Africa, the United States and most other NATO countries were among the attendees and presenters.

#### TRAINING AIDS

Chemical Warfare Agent Simulant Training Kit Distribution Limitation: Unlimited: Unclassified

CBIAC Product Number: SIMKIT-96-01

Price: \$150.00 Publication Date: October 1996 Media: Kit

Description: This kit, designed for classroom training purposes, simulates the color, viscosity, and scent of nerve agents Soman (GD), thickened Soman (TGD), Sarin (GB), and VX, as well as blister agents, distilled Mustard (HD) and Lewisite (L). Visual simulants are contained in clear, sealed glass vials. The scent simulants are added into a sponge material and contained inside dark-brown glass vials. The chemical properties are based upon literature and first-hand accounts from personnel experienced in working within chemical surety facilities. Each glass vial is marked with the designation "simulant". A Material Safety Data Sheet (MSDS) is provided for each chemical used as a simulant. Glass vials are color coded on the caps with the appropriate agent designation. Instructions for use are on the inside lid cover. A pair of laboratory gloves are provided in the kit along with directions for the clean-up of a liquid spill should a vial be accidentally broken. Kits are made upon order. Please allow 6-8 weeks for delivery.

#### STATE-OF-THE-ART REPORTS

#### Sensing of Chemical & Biological Agents

Distribution Limitation: U.S. Department of Defense Agencies and their contractors; Unclassified

CBIAC Product Number: SOAR-04-12

Price: \$75.00 - \$200.00. Contact IRIA for details Media: CD-ROM or Paperback

Description: This report is a joint project of the Infrared Information Analysis Center (IRIA) and the CBIAC. It covers all aspects of the detection and identification of CB agents. The SOAR presents the best available data on CB agent detection and identification systems, including those still in development, across all missions, applications, and platforms. It is 729 pages in length with 95 tables and 292 figures and contains an introduction to CB agents, general requirements, sensing phenomenology and instrumentation, chemical agent sensing systems, sensing of biological agents, emerging CB sensing, and enabling technologies. To order, visit the IRIA Web site at <a href="http://www.iriacenter.org">http://www.iriacenter.org</a> or contact IRIA at (734) 994-1200, extension 2216.

## Chemical and Biological Medical Treatment Symposium - III

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: SOAR-04-11

Price: \$35.00 Publication Date: December 2003 Media: CD-ROM

Description: This CD-ROM contains the complete proceedings of the Chemical and Biological Medical Treatment Symposium – III held in Spiez, Switzerland on May 7-12, 2000. It presents the work of over 100 experts in medicine, science, and related disciplines from the government, academic and industrial sectors of the 32 participating countries. Topics addressed include nerve agent treatment, convulsions, cholinesterase measurement, mustard treatment, riot control agents, decontamination, bioscavengers, bioterrorism, biological agent treatment and detection, threats, and emergency response issues.

#### Best Practices and Guidelines for Mass Personnel Decontamination

**Distribution Limitation:** U.S. Government Agencies, their Contractors, State and Local Government Agencies; Unclassified

CBIAC Product Number: SOAR-03-10

Price: \$20.00 Publication Date: June 2003 Media: Paperback and

CD-ROM Set

Description: This product provides evidence- and consensus-based guidelines for responding to and decontaminating victims in mass casualty incidents involving chemical or biological materials. It was developed through Technical Support Working Group and U.S. Public Health Service in collaboration with Australia, Canada, and the United Kingdom, and provides general principles and methods for identifying and responding to chemical or biological mass casualty incidents. It includes sections on general principles of decontamination, chemical decontamination and setups, managing incident sites and decontaminating victims in a biological incident, along with annexes with supporting information, including detailed information on chemical and biological agents, common decontaminants, hazard modeling and management, and psychological and public relations considerations for use by federal, state and local emergency response personnel as both a training tool and as an on-scene quick reference.

Criminal and Epidemiological Investigation Handbook

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: SOAR-03-09

Price: \$10.00 Publication Date: March 2003 Media: Paperback
Description: This publication provides an introduction to epidemiological and criminal investigations of biological incidents so public health and law enforcement personnel have a better understanding of each other's information requirements and investigative procedures. It identifies potential conflicts that law enforcement and public health personnel will encounter during their respective biological incident investigations and provides potential solutions that can be adapted to meet the needs of various jurisdictions and agencies. It also enhances the mutual appreciation and understanding of these disciplines.

### Possible Terrorist Use of Modern Biotechnology Techniques

Distribution Limitation: U.S. Government Agencies Only; For Official Use Only

CBIAC Product Number: SOAR-02-08

Price: \$25.00 Publication Date: April 2002 Media: Paperback

**Description:** This report addresses the background and assumptions related to possible terrorist use of modern biotechnology techniques, means of applying advanced biotechnology to the development and weaponization of organisms of interest, discusses the requisite levels of expertise needed to accomplish this task, and describes some possible scenarios. Contributions from a Monterey Institute for International Studies / National Defense University focus group are presented and discussed

# Joint Science and Technology Chemical and Biological Front End Analysis and Master Plan – Individual Protection

Distribution Limitation: U.S. Government Agencies Only; Unclassified

CBIAC Product Number: SOAR-02-07

Price: \$25.00 Publication Date: October 2002 Media: CD-ROM

**Description:** This CD-ROM contains the complete Joint Science and Technology Panel for CB Defense Individual Protection Chemical and Biological Protection Front End Analysis and Master Plan report (dated August 2001), along with a literature database on technologies and materials related to air purification and percutaneous protection, a search tool, and a help file.

#### Medical Risk Assessment of the Biological Threat

Distribution Limitation: U.S. Government Agencies and Their Contractors; Unclassified

CBIAC Product Number: SOAR-02-06

Price: \$45.00 Publication Date: June 2002 Media: Paperback

**Description:** Panels of medical specialists developed weighted criteria to score potential biological agents based on pathophysiology and operational impacts of agent-induced disease. These criteria were used to produce a medical biological agent risk management matrix prototype.

#### Tools to Minimize the Threat of Intentional Food/Water Contamination

**Distribution Limitation:** U.S. Government Agencies and their Contractors, State and Local Government Agencies; Unclassified

CBIAC Product Number: SOAR-02-05

Price: \$75.00 Publication Date: January 2002 Media: Paperback

**Description:** This report provides a catalog of security technologies and analytical methods to minimize the threat posed by intentional food and/or water contamination. Specific pathogens and other agents (bacteria, protozoan parasites, viruses, toxins, and chemicals) are addressed. Several cases of intentional food contamination are summarized. Defensive strategies against food and water terrorism should also consider treatment measures, which are not discussed in this catalog.

### Weapons of Mass Destruction Level III Antiterrorism Training

Distribution Limitation: U.S. Government Agencies and their Contractors; Unclassified

CBIAC Product Number: SOAR-01-04

Price: \$15.00 Publication Date: October 2000 Media: CD-ROM

Description: PDD 39 directs that U.S. Forces give the highest priority to developing effective capabilities to detect, prevent, defeat, and manage consequences of nuclear, biological, or chemical (NBC) materials or weapons used by terrorists. The current Force Protection training for DoD personnel consists of four levels. Level I training must be conducted for military, DoD civilians, and family members prior to deployment. Level II training is a resident course to prepare officers and NCOs to serve as advisors to unit commanders for Force Protection (FP) matters. Level III is part of the 05/06 level pre-command course, while Level IV is the senior commander/executive level seminar. This CD-ROM contains slide shows to assist instructors in giving Level III training, along with additional information that will help commanders address antiterrorism matters.

## Respirator Encumbrance Model

Distribution Limitation: U.S. Government Agencies and their Contractors; Unclassified

CBIAC Product Number: SOAR-01-03

Price: \$125.00 Publication Date: September 2000 Media: CD-ROM

Description: The Respirator Encumbrance Model (REM) is a PC database application that provides information on human performance degradation for proposed mask designs. Such modeling minimizes the guesswork, cost, and effort commonly expended to determine effects of new mask designs on wearer operational performance. The REM is a collection of tables, screens, buttons, fact sheets, and lists that interact to provide a fractional human performance rating value for individuals performing military tasks while wearing respirators, along with a bibliographic database. The REM derived task performance ratings represent the expected level of performance relative to performance without a mask. Each performance rating is based on mask design parameters entered and mission or task set selected.

## Weapons of Mass Destruction Force Protection Joint Service Training

Distribution Limitation: U.S. Government Agencies and their Contractors, State and Local Government Agencies; Unclassified

CBIAC Product Number: SOAR-00-02

Price: \$95.00 Publication Date: June 2000 Media: CD-ROM

Description: PDD 39 directs that U.S. Forces give the highest priority to developing effective capabilities to detect, prevent, defeat, and manage consequences of nuclear, biological, or chemical (NBC) materials or weapons used by terrorists. The current Force Protection training for DoD personnel consists of four levels. Level I training must be conducted for military, DoD civilians, and family members prior to deployment. Level II training is a resident course to prepare officers and NCOs to serve as advisors to unit commanders for Force Protection (FP) matters. Level III is part of the 05/06 level pre-command course, while Level IV is the senior commander/executive level seminar. This CD ROM contains slide shows to assist instructors in giving Level I and Level II courses, along with additional information that will assist officers or NCOs assigned as advisors to the commander for Force Protection matters.

#### Medical NBC Battlebook

Distribution Limitation: Unlimited: Unclassified

CBIAC Product Number: SOAR-00-01

Price: \$5.00 Publication Date: April 1999 Media: Paperback

**Description:** The Medical NBC Battlebook (U.S. Army Center for Health Promotion and Preventive Medicine [USACHPPM] Tech Guide 244) The Battlebook covers nuclear weapons, radiological hazards, biological agents, chemical agents, lasers and radiofrequency hazards, NBC defense equipment, and points of contact.

This item is currently out of print and is now available at the following URL: http://chppm-www.apgea.army.mil/documents/TG/TECHGUID/tg244.pdf

### **CB Decontamination Market Survey and Tool**

**Distribution Limitation:** U.S. Government Agencies and their Contractors; Export Controlled; Unclassified

CBIAC Product Number: SOAR-99-13

Price: \$95.00 Publication Date: June 1999 Media: CD-ROM

**Description:** This SOAR contains a knowledge-based decontamination database and search tool covering the full range of current commercial and military decontamination technologies and systems, decontamination technologies and systems undergoing development, and ideas for integration of technologies to achieve effective decontamination. The SOAR also contains a version of CBIAC CR-99-10, Wide Area Decontamination: CB Decontamination Technologies, Equipment, and Projects.

#### **CBR-D Curricular Materials**

Distribution Limitation: U.S. Government Agencies and their Contractors; Export-Controlled; Unclassified

CBIAC Product Number: SOAR-99-12

Price: \$75.00 Publication Date: March 1999 Media: CD-ROM

**Description:** This CD-ROM provides trainee guide and lesson plan files to support SOAR-98-06, CBR-D Computer Aided Instruction. Because of the coverage of NBC operations in confined spaces, this set may also be of interest to the domestic preparedness community. The files are in Microsoft® Word 97.

## Disaster Preparedness Operation Specialist (DPO) Curricular Materials

**Distribution Limitation:** U.S. Government Agencies and their Contractors; Export-Controlled; Unclassified

CBIAC Product Number: SOAR-99-11

Price: \$75.00 Publication Date: March 1999 Media: CD-ROM

**Description:** This CD-ROM provides trainee guide and lesson plan files to support SOAR-98-07, Disaster Preparedness Operation Specialist (DPO) Computer Aided Instruction. Because of the coverage of NBC operations in confined spaces, this set may also be of interest to the domestic preparedness community. The files are in Microsoft® Word 97.

## **Tactical NBC Information Tool**

Distribution Limitation: U.S. Government Agencies Only; Unclassified

CBIAC Product Number: SOAR-99-10

Price: \$95.00 Publication Date: June 1998 Media: CD-ROM

Description: This CD-ROM provides a complete set of NBC planning tools for use in tactical headquarters settings. Topics covered include agent characteristics, staff responsibility, the assessment tool, defense units, equipment, operations orders, threat, Army Universal Task List (AUTL) tasks conditions, and standards. The interactive nature of this tool greatly simplifies the NBC defense planning and training process. Included are a range of tools and manuals on NBC decontamination, protection, contamination avoidance, potential military CB agents and compounds, field behavior of agents, and medical management of chemical casualties. This CD-ROM would also be valuable to the domestic preparedness, force protection, and counter terrorism communities.

## **Technical Approach Options for Indoor Air Modeling**

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: SOAR-98-09

Price: \$75.00 Publication Date: August 1998 Media: Paperback

Description: This publication provides an assessment of 23 mathematical models that describe airflow, heat distribution, and contaminant transport within buildings. Each of the 23 models examined employed one of four approaches: well-mixed volume, computational fluid dynamics, plume dispersion, or empirical. Four models are recommended for further examination based on the needs of the Domestic Preparedness program: the U.S. EPA's RISK model, Battelle Memorial Institute's Emissions Transport Model, Gradient Corporation's Plume Dispersion Model, and the Subway Environmental Simulation developed by Parsons Brinkerhoff for the DOT. Descriptions and validation studies for these four models are presented.

## **CINC NBC Information Tool**

Distribution Limitation: U.S. Government Agencies Only; Unclassified

CBIAC Product Number: SOAR-98-08

Price: \$95.00 Publication Date: December 1997 Media: CD-ROM

**Description:** This CD-ROM provides a complete set of NBC planning tools for use in high-level headquarters settings. Topics covered include agent characteristics, staff responsibility, the assessment tool, defense units, equipment, OPLAN, threat, and UJTL. The interactive nature of this tool greatly simplifies the NBC defense planning process at headquarters level. This CD-ROM would also be valuable to the domestic preparedness, force protection, and counter terrorism communities.

## Disaster Preparedness Operation Specialist (DPO) Computer Aided Instruction

**Distribution Limitation:** U.S. Government Agencies and their Contractors; Export-Controlled; Unclassified

CBIAC Product Number: SOAR-98-07

Price: \$125.00 Publication Date: December 1997 Media: CD-ROM

**Description:** This 2 CD-ROM set provides a supplement to the U.S. Navy's Disaster Preparedness Operation Specialist course. Topics covered include radiological detection equipment, dosimeters, computer indicator equipment, CBR protective equipment, self and buddy aid, chemical detection equipment, and chemical decontamination equipment. The presentations contain text, graphics, and video clips that support each of the topics. Because of the coverage of NBC operations in confined spaces, this set may also be of interest to the domestic preparedness community.

### **CBR-D Computer Aided Instruction**

Distribution Limitation: U.S. Government Agencies and their Contractors; Export-Controlled; Unclassified CBIAC Product Number: SOAR-98-06

Price: \$125.00 Publication Date: December 1997 Media: CD-ROM

**Description:** This 2 CD-ROM set provides a supplement to the U.S. Navy's CBR-D course. Topics covered include personal protective equipment, improved point detection system, chemical agent point detection system, chemical warfare directional detector, chemical agent detection kit and paper, collective protection system, chemical agent self and buddy aid, interim biological agent detection system, and RADIACs and radiation dosimeters. The presentations include text, graphics, and video clips that support each of the topics. Because of the coverage of NBC operations in confined spaces, this set may also be of interest to the domestic preparedness community.

## Assessment of Chemical Detection Equipment for HAZMAT Responders

**Distribution Limitation:** U.S. Government Agencies and their Contractors, State and Local Government Agencies; Unclassified

CBIAC Product Number: SOAR-98-05

Price: \$75.00 Publication Date: July 1998 Media: Paperback

**Description:** This publication provides an assessment of the detection equipment required by HAZMAT responders in order to deal with a terrorist incident involving chemical warfare agents. A representative locale was selected, and the incident response system was analyzed. Commercially available and military chemical warfare agent detection equipment is identified and analyzed based on the requirements of emergency responders. This analysis yielded recommendations for chemical detection equipment for use by emergency responders to meet their domestic preparedness needs.

### State-of-the-Art Report on the Australia Group Chemicals

Distribution Limitation: Unlimited: Unclassified

CBIAC Product Number: SOAR-98-04

Price: \$75.00 Publication Date: June 1998 Media: Paperback

**Description:** This publication provides a condensed, quick reference summary of information on each of the 54 chemicals listed by the Australia Group. For each listed chemical, this report provides the chemical information, synonyms, trade names, Chemical Abstract Service number, CWC schedule number (where applicable), civilian uses, and related data. The civilian uses provided represent examples of the industrial applications of dual use chemicals, and is not an exhaustive list.

## An Overview of U.S. Chemical and Biological Defensive Equipment

Distribution Limitation: Unlimited; Unclassified

CBIAC Product Number: SOAR-97-03

Price: \$95.00 Publication Date: January 1997 Media: Paperback

**Description:** This report profiles U.S. chemical protective equipment currently available or in development programs. Equipment in the categories of individual protection, detection and warning, collective protection and decontamination are presented, along with photographs or sketches of the items discussed. Over 50 protective equipment items are highlighted.

## State-of-the-Art Report on Biodetection Technologies

Distribution Limitation: U.S. Government Agencies and their Contractors; Export-Controlled; Unclassified

CBIAC Product Number: SOAR-95-02

Price: \$60.00 Publication Date: July 1995 Media: Paperback

**Description:** This publication provides a brief overview of biodetection technologies that may be used for military purposes. It also describes biological warfare agents and their properties as they relate to detection. Standoff, non-specific and specific biodetection technologies such as immunoassay technologies, nucleic acid amplification, flow cytometry, mass spectrometry, laboratory analysis and others are discussed.

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