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## **Technical Memorandum**

**TM-03-2007 E**

# **Bibliography of Selected Resources on OC Spray and Other Chemical Irritants**

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Prepared for the  
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by  
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## **CPRC Reports:**

CPRC survey of Canadian Police Services on OC Spray Experience  
<http://www.cprc.org/tm/tm-2004-03.pdf>

Comments on the Use of Capsaicin Spray  
<http://www.cprc.org/tm/tm-01-98.pdf>

OC Spray - A Review of Its Possible Risks including Carcinogenicity  
<http://www.cprc.org/tm/tm-08-98.pdf>

Oleoresin Capsicum in Buffalo  
<http://www.cprc.org/tr/tr-1995-04E.pdf>

Evaluation of Pepper Spray for the Winnipeg Police Department  
<http://www.cprc.org/tm/tm-11-94E.pdf>

Oleoresin Capsicum Spray  
<http://www.cprc.org/tm/tm-19-94.pdf>  
<http://www.cprc.org/tm/tm-19-94F.pdf> (French version)

Our international partners have also done studies in this area and some of their reports are shown below.

### **International Association of Chiefs of Police (IACP)**

Pepper Spray Evaluation Project  
<http://www.theiacp.org/research/peppersprayeval.pdf>

### **United States Department of Justice**

List of less lethal publications (several OC articles)  
<http://www.ojp.usdoj.gov/nij/topics/lesslethal/pubs.htm>



## **United States National Institute of Justice**

### **Effectiveness and Safety of Pepper Spray**

NCJ 195739, April 2003, Research for Practice, by National Institute of Justice

<http://www.ncjrs.gov/pdffiles1/nij/195739.pdf>

### **Deaths in Police Confrontations When Oleoresin Capsicum is Used**

NCJ 204029, 2002, Final Grant Report, by Petty, Charles S.

<http://www.ncjrs.gov/pdffiles1/nij/grants/204029.pdf>

### **Pepper Spray's Effects on a Suspect's Ability to Breathe**

NCJ 188069, December 2001, Research in Brief, by Gary M. Vilke, Jack Clausen, Paul

Schmidt, Richard Clark, Theodore C. Chan, Thomas Snowden, Tom Neuman

<http://www.ncjrs.gov/pdffiles1/nij/188069.pdf>

### **Evaluation of Oleoresin Capsicum (O.C.) Use by Law Enforcement Agencies: Impact on Injuries to Officers and Suspects, Final Activity Report**

NCJ 184934, 2000, Final Grant Report, by Bowling, J. Michael; Gaines, Monica

<http://www.ncjrs.gov/pdffiles1/nij/grants/184934.pdf>

### **Evaluation of Oleoresin Capsicum (O.C.) Use by Law Enforcement Agencies: Impact on Injuries to Officers and Suspects, Summary of Research Findings**

NCJ 184935, 2000, Final Grant Report, by Bowling, J. Michael; Gaines, Monica

<http://www.ncjrs.gov/pdffiles1/nij/grants/184935.pdf>

### **Impact of Oleoresin Capsicum Spray on Respiratory Function in Human Subjects in the Sitting and Prone Maximal Restraint Positions, Final Report**

NCJ 182433, 2000, by Chan, Theodore C.; Clark, Richard; Clausen, Jack; Neuman, Tom;

Schmidt, Paul; Snowden, Thomas; Vilke, Gary M.

<http://www.ncjrs.gov/pdffiles1/nij/grants/182433.pdf>

### **Oleoresin Capsicum: Pepper Spray as a Force Alternative**

NCJ 181655, March 2000, Special Report, by National Institute of Justice

<http://www.ncjrs.gov/pdffiles1/nij/grants/181655.pdf>



#### Evaluation of Pepper Spray

NCJ 162358, 1997, Research in Brief, by Jamie Onnen, John Granfield, and Steven M. Edwards

<http://www.ncjrs.gov/pdffiles/162358.pdf>

#### **United States National Institute of Standards and Technology**

Droplet Size Distributions in the Spray from Commercial 'Fogger' Type Pepper Spray Products NISTIR 7395, by Dr. Alim A. Fatah, Cary Presser, Edward V. White

#### **United Kingdom - Home Office Scientific Development Branch**

Comparison of CS and PAVA: Operational and Toxicological Aspects 88-04

This report has been produced to provide comparative information on the chemical incapacitants chlorobenzylidene malononitrile (CS) and pelargonic acid vanillylamide (PAVA).

[http://scienceandresearch.homeoffice.gov.uk/hosdb/publications/police-weaponry/Compairson\\_CS\\_and\\_PAVA?version=1](http://scienceandresearch.homeoffice.gov.uk/hosdb/publications/police-weaponry/Compairson_CS_and_PAVA?version=1)

HOSDB Standard for CS and PAVA Sprays for Operational Police Use 36-05

This document details a number of tests that products had to pass to gain approval, the results of these tests provided information to the police to aid procurement.

<http://scienceandresearch.homeoffice.gov.uk/hosdb/publications/police-weaponry/36-05-HOSDB-Standard-CS1.pdf?version=1>

#### **Other Web Resources:**

Less-lethal.org is a source of information on less-lethal technology used by law enforcement agencies. The web site content is dynamic, with updates provided on a periodic basis. Provides a basic and advanced search function for articles and contains many references on the subject of OC spray with some links to full text.

<http://www.less-lethal.org>

Bradstock, M. What is the safety of "pepper spray" use by law enforcement or mental health service staff? *NZHTA Tech Brief Series 2002;1(2)*

[http://nzhta.chmeds.ac.nz/publications/pepper\\_spray.pdf](http://nzhta.chmeds.ac.nz/publications/pepper_spray.pdf)



## Related Studies:

CPRC

Conducted Energy Devices

<http://www.cprc.org/tr/tr-2006-01.pdf>

<http://www.cprc.org/tr/tr-2006-01f.pdf> (French version)

Excited Delirium Its correlation to sudden and unexpected death proximal to restraint.

[http://www.cprc.org/tr/tr-2005-02\\_e.pdf](http://www.cprc.org/tr/tr-2005-02_e.pdf)

[http://www.cprc.org/tr/tr-2005-02\\_f.pdf](http://www.cprc.org/tr/tr-2005-02_f.pdf) (French version)

British Columbia Office of the Police Complaints Commissioner

Taser Technology Review and Interim Recommendations

[http://www.cprc.org/docs/bcopcc\\_interim.pdf](http://www.cprc.org/docs/bcopcc_interim.pdf)

Taser Technology Review Final Report

[http://www.cprc.org/docs/bcopcc\\_final.pdf](http://www.cprc.org/docs/bcopcc_final.pdf)