

Emergency Protection for Infants and Children

SURVIVAIR® introduces the Inpro® Infant Protector and the Respro® Protective Hood for Children



Inpro Infant Protector



Inpro



Respro

The Inpro and Respro are positive-pressure hooded respirator systems developed by Shalon and the Israel Defense Forces, designed to protect infants and children from nuclear, biological and chemical (NBC) agents for extended periods of time in the event of an emergency. Both respiratory systems utilize a battery-operated blower to supply a constant flow of filtered air to the hoods.

The Inpro and Respro extend the SURVIVAIR® line of high quality respiratory protection equipment. SURVIVAIR is an authorized U.S. distributor of Shalon Chemical Industries Ltd.

Inpro—for Infants and Toddlers up to 3 Years

The Inpro affords effective respiratory protection during NBC emergencies for toddlers and infants for extended periods, while assuring maximum comfort and allowing normal activity for the infant (eating, lying down, walking, playing) and for the parents (carrying, feeding and diapering the infant, and comforting with pacifier).

Key Features:

Inpro consists of:

- **Head and body covering** made of strong impermeable and transparent plastic laminate—allows unobscured view of the infant. The cover includes:
 - Two strong and secure plastic zippers for quick and easy positioning or removal of the infant.
 - Integrated feeding nipple (feeding bottle is supplied with the system).
 - Flexible rubber hose for directing filtered air into the protector.
 - Support system—soft, comfortable, cushioning material on a rigid plastic "carrier".
- **Compact and reliable air supply unit**—blower draws in ambient air through the filter canister and delivers it into the protector under positive pressure. The unit consists of:
 - A highly efficient miniature blower enclosed in a durable polycarbonate housing.
 - Four lithium-MnO₂ batteries.
 - Specially designed filter canister adaptor.
- **Brightly colored strap system**—for safely securing and carrying the infant.
- **Highly protective plastic storage case.**



SURVIVAIR®

Safe. Secure. SURVIVAIR.™

Respro—for Children Ages 2–8 Years

The Respro is specially designed to provide respiratory protection to small children during NBC emergencies with optimal simplicity, comfort and safety, assuring extended use with minimal interference in normal activities.

Key Features:

Respro consists of three main integral sub-systems:

- **Light and flexible impermeable hood**—includes:
 - Large optical grade visor.
 - Drinking system for safe fluid intake in contaminated environments.
 - Comfortable and easily adjustable head harness and neck strap, with elastic webbings.
 - Flexible rubber hose for directing filtered air into the hood.
- **Compact and reliable air supply unit**—blower draws in ambient air through the filter canister and delivers it into the hood under positive pressure. The unit consists of:
 - A highly efficient miniature blower enclosed in a durable polycarbonate housing.
 - Four lithium-MnO₂ batteries.
 - Specially designed filter canister adaptor.
- **Comfortable and brightly colored vest**—acts as an interface between the hood and the air supply unit and secures the hood on the child.

TECHNICAL DATA

Weight:	Respro: 1,200 grams Inpro: 1,550 grams
Power supply:	4 lithium-MnO ₂ batteries, size 2/3 A
Operating voltage:	2.7 volts
Air flow:	45 liters/minute
Operating time (without replacing batteries):	14 hours
Shelf life:	10 years
Resistance to liquid mustard penetration:	Over 6 hours

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
790025	Respro Child System
790020	Inpro Infant System
790022	Replacement Canister for Child/Infant System

TEST RESULTS

The SURVIVAIR Inpro and Respro canisters were tested against various chemical warfare agents, including GB (sarin) and HD (mustard-liquid and vapors). Third party testing provides assurance that this canister is effective against chemical warfare agents. Please see the table below for additional information.

CHALLENGE AGENT	CHALLENGE CONCENTRATION	SERVICE LIFE
α-Chloroacetophenone (CN) <i>Tear Gas</i>	16 ppm	> 480 minutes
o-Chlorobenzylidene Malononitrile (CS) <i>Tear Gas</i>	3 ppm	> 480 minutes
Cyanogen Chloride (CK)** <i>Blood Agent</i>	4,000 mg/m ³	> 100 minutes
Dimethyl Methylphosphonate (DMMP)** <i>Sarin Simulant, Nerve Agent</i>	3,000 mg/m ³	> 233 minutes
Hydrogen Cyanide (HCN)**	1,200 mg/m ³	> 100 minutes
Mustard Gas (HD)* <i>Liquid and Vapor, Blister Agent</i>	300 mg/m ³	> 120 minutes
Phosgene**	4,000 mg/m ³	> 87 minutes

* Canister testing performed by US Army Soldier Biological Chemical Command (SBCCOM).

** Canister testing performed by Shalon Chemical Industries Ltd.



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