

Aerko International
3410 NE 5th Avenue, Oakland Park, Florida 33334
MATERIAL SAFETY DATA SHEET

DATE OF PREPARATION: May 15, 1991 **EMERGENCY TELEPHONE #:** (954) 565-8475

UPDATED: January 31, 2001 **AFTER HOURS** 800-424-9300

SECTION I: PRODUCT IDENTIFICATION

Product Name: Punch, Punch II

Product Number: M-1, M-2, M-3, M-3-B, M-3-A, M-3-X, M-4, M-4-B, M5B, M5G, MKH (Keyholer), Auto Ejector, Deep Punch, Punch Trigger

Product Class: Self Defense Spray, Aerosol

D.O.T. Shipping Class: ORM-D Consumer Commodity

SECTION II: HAZARDOUS INGREDIENTS

OCCUPATIONAL INGREDIENT	EXPOSURE LIMITS		VAPOR PRESSURE
	TLV	PEL	
ISOPROPYL ALCOHOL	400 PPM	400 PPM	33.0 MMHG
ISOBUTANE/PROPANE AS PROPELLANT	1000 PPM	1000 PPM	46 PSIG @ 70° F
OLEORESIN CAPSICUM 2 MILLION SHU 5%	Not Established	Not Found	

SECTION III: PHYSICAL DATA

Boiling Range: 180° F

Vapor Density: 2.1 (air=1) Heavier than air

Percentage Volatile by weight: 95 - 99%

Evaporation Rate: 1.7 (Butyl Acetate=1)

Weight per gallon: 6.8 lbs.

Specific Gravity: 0.786 @ 60° F

Appearance: Amber to Light Red

Odor: Pungent, High Bite Noticeable Taste in Throat

SECTION IV: FIRE AND SAFETY EXPLOSION HAZARD DATA

Flammability Classification OSHA:	Flammable
Shipping Classification D.O.T.:	ORM-D
Flash Point:	53° F
Flammable Levels in Air:	Lower: >2.5 Upper: 12.0
Extinguishing Media:	Foam, Water, CO ₂ , Dry Chemical

Unusual Fire and Explosion Hazards: Do not expose to heat or flame or store above 120° F as high internal pressures may cause leaking.

Special Fire Fighting Procedures: Full protective equipment including self contained breathing apparatus should be used, Fog nozzles should be used to cool closed containers to prevent pressure buildup. Move undamaged containers from fire area if accomplished without risk.

SECTION V: HEALTH HAZARD DATA

PRIMARY ROUTE(S) OF ENTRY: Dermal, Inhalation

EMERGENCY AND FIRST AID PROCEDURE:

EYES: Flush eyes with large quantities of water to speed recovery. Face subject into wind or forced air source such as fans or air conditioning outlet.

SKIN CONTACT: Wash affected area with soap and water to avoid transfer to more sensitive areas. Only minor sensation with skin contact in most areas.

INHALATION: Inflammatory, causes blood flow to affected area causing feeling of restricted airway. No danger exists for asphyxiation. Remove persons to fresh air.

INGESTION: Severe burning heartburn sensation may cause nausea.

PHYSIOLOGICAL EFFECTS AND HEALTH INFORMATION

EYE EFFECTS: This product is an eye irritant, Tearing and redness may occur.

This product has been thoroughly tested by FDA approved Labs and has been found to have minor non persistent eye irritation, to be non toxic, and not to cause dermatitis.

SECTION VI: REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: Heat, open flames, electrical and static discharges.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong Acids, Alkalies and Oxidizers.

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapors. Confine spill with inert absorbent. Wear protective equipment during clean up.

WASTE DISPOSAL: Incinerate in an approved incinerator or dispose of in accordance with Local, State and Federal Regulations.

SECTION VIII: SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved Chemical/Mechanical type filter system to remove a combination of particles, gas & vapor. Use air line if necessary.

VENTILATION: Use adequate ventilation in volume and pattern to keep LEL and TLV's in Section II below recommended level to produce explosion or fire. General mechanical ventilation should comply with OSHA 1910.94.

PROTECTIVE GLOVES: Use rubber gloves.

EYE PROTECTION: Safety glasses or goggles with splash guards or side shields.

OTHER PROTECTIVE EQUIPMENT: Prevent prolonged skin contact to contaminated clothing.

SECTION IX : SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool dry area away from sources of ignition. When storing large quantities, store in building designed and protected against fire.

DO NOT STORE IN DIRECT SUNLIGHT OR ABOVE 120⁰ F.

OTHER PRECAUTIONS: "FOR INDUSTRIAL USE ONLY" Do not take internally. If ingested, DO NOT INDUCE VOMITING. Consult a physician.

SECTION X: Hazardous Material Identification System

HEALTH

0-No Significant Health Risk

1-Irritation or Minor Reversible Injury Possible

2-Temporary or Minor Injury May Occur

3-Major Injury Likely Unless Prompt Action is Taken and Medical Treatment is Given

4-Life Threatening; Major Permanent Damage May Result from Single or Repeated Exposures

FLAMMABILITY

0-Materials Will Not Burn

1-Flash Point Above 200⁰ F

2-Flash Point Above 100⁰ F below 200⁰ F

3-Flash Point Between 73⁰ F and 100⁰ F

4-Flash Point Below 73^o F

PHYSICAL HAZARD

0-Material that are normally stable even under fire conditions and will not react with water.

1-Material that are normally stable but can become unstable (self-react) at high temperatures and pressures; may react non violently with water to undergo hazardous polymerization in the absence of inhibitions.

2-Materials that are unstable; may react violently with water and undergo violent chemical changes with low risk for explosion.

3-Materials that may for explosive mixtures with water or undergo other chemical change at normal temperatures.

4-Materials capable of explosive water reaction, decomposition or polymerization.

Punch II H.M.I.S.

Health: 1

Flammability: 4

Physical Hazard: 0

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