

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

Form Approved  
OMB No. 44-81387

*POLICE ACADEMY*

# MATERIAL SAFETY DATA SHEET

*P.O. 73203*

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

|                                                                                                              |                                                                                               |                                                                     |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| MANUFACTURER'S NAME<br><b>AAI Manufacturing Assembly, Inc.</b>                                               |                                                                                               | EMERGENCY TELEPHONE NO.<br><b>1-800-356-9317<br/>(301) 584-8111</b> |
| ADDRESS / Number Street City, State, and ZIP Code:<br><b>P.O. Box 3007, Hunt Valley, Maryland 21030-3007</b> |                                                                                               |                                                                     |
| CHEMICAL NAME AND SYNONYMS<br><b>Orthochlorobenzalmalononitrile (CS Tear Gas)</b>                            | TRADE NAME AND SYNONYMS<br><b>SGA-100 Ferret<br/>barricade 12 gauge penetrating cartridge</b> |                                                                     |
| CHEMICAL FAMILY<br><b>N/A</b>                                                                                | FORMULA<br><b>ClC<sub>6</sub>H<sub>4</sub>CNC (CN)<sub>2</sub></b>                            |                                                                     |

## SECTION II — HAZARDOUS INGREDIENTS

| PAINTS PRESERVATIVES, & SOLVENTS                      | %         | TLV (Units)   | ALLOYS AND METALLIC COATINGS                      | % | TLV (Units) |
|-------------------------------------------------------|-----------|---------------|---------------------------------------------------|---|-------------|
| PIGMENTS <b>N/A</b>                                   |           |               | BASE METAL <b>N/A</b>                             |   |             |
| CATALYST <b>N/A</b>                                   |           |               | ALLOYS <b>N/A</b>                                 |   |             |
| VEHICLE <b>Methylene Chloride (MC)</b>                | <b>71</b> | <b>500ppm</b> | METALLIC COATINGS <b>N/A</b>                      |   |             |
| SOLVENTS <b>N/A</b>                                   |           |               | FILLER METAL PLUS COATING OR CORE FLUX <b>N/A</b> |   |             |
| ADDITIVES <b>N/A</b>                                  |           |               | OTHERS <b>N/A</b>                                 |   |             |
| OTHERS <b>CS</b>                                      | <b>11</b> | <b>.05ppm</b> |                                                   |   |             |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES |           |               |                                                   | % | TLV (Units) |
|                                                       |           |               |                                                   |   |             |
|                                                       |           |               |                                                   |   |             |
|                                                       |           |               |                                                   |   |             |
|                                                       |           |               |                                                   |   |             |
|                                                       |           |               |                                                   |   |             |

## SECTION III — PHYSICAL DATA

|                                                                                |                                                                 |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------|
| BOILING POINT (°F)<br><b>MC: 104°F (40°C)<br/>CS: 590°F (310°C)</b>            | SPECIFIC GRAVITY (H <sub>2</sub> O=1)<br><b>CS: N/A MC: 1.3</b> |
| VAPOR PRESSURE (mm Hg.)<br><b>CS: N/A MC: 390@STP</b>                          | PERCENT VOLATILE BY VOLUME (%)<br><b>CS: N/A MC: 100%</b>       |
| VAPOR DENSITY (AIR=1)<br><b>CS: N/A MC: 1.335gm/cc</b>                         | EVAPORATION RATE<br>(_____ "1)<br><b>CS: N/A MC: 71</b>         |
| SOLUBILITY IN WATER<br><b>MC: 1.32gm/100gmH<sub>2</sub>O<br/>CS: Insoluble</b> |                                                                 |
| APPEARANCE AND ODOR<br><b>Red liquid with irritating pepper-like odor</b>      |                                                                 |

## SECTION IV — FIRE AND EXPLOSION HAZARD DATA

|                                                                                                                                                                         |                                |     |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----|-----|
| FLASH POINT (Method used)<br><b>None</b>                                                                                                                                | FLAMMABLE LIMITS<br><b>N/A</b> | LEL | UEL |
| EXTINGUISHING MEDIA<br><b>Water, Chemical or CO</b>                                                                                                                     |                                |     |     |
| SPECIAL FIRE FIGHTING PROCEDURES<br><b>N/A</b>                                                                                                                          |                                |     |     |
| UNUSUAL FIRE AND EXPLOSION HAZARDS<br><b>Cartridge contains .0375 oz. smokeless powder (not a detonating explosive) to eject Ferret projectile from cartridge case.</b> |                                |     |     |

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## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE

CS causes irritation of eyes, skin and respiratory system. Nausea may occur with exposure to high concentrations.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove victim to fresh air.

Eyes: Irrigate with copious flow of water for at least 15 mins. - then seek medical attn.

Skin: Soap and copious water wash immediately.

## SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

MC: Avoid open flames, hot glowing surfaces or electric arcs.

STABLE

X

INCOMPATIBILITY (Materials to avoid)

MC: Corrosive to aluminum and magnesium.

HAZARDOUS DECOMPOSITION PRODUCTS

MC: Contact with open flame may cause decomposition products release.

HAZARDOUS

POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove personnel from area and ventilate thoroughly.

WASTE DISPOSAL METHOD

Tear gas decontamination procedures recommended. Aerate indoor areas as soon as possible. Material will vaporize rapidly in heat. Vacuum surfaces, furniture, drapes. 5% solution of sodium carbonate will decontaminate. Waste disposal must comply with Federal, State and local disposal laws.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Full facepiece gas mask with organic vapor cartridges which include high eff. pre-filters for dusts. A self-contained breathing apparatus is also acceptable.

VENTILATION

LOCAL EXHAUST

Recommended

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

N/A

EYE PROTECTION

Recommended

OTHER PROTECTIVE EQUIPMENT

N/A

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store away from food, drinking water, heat or open flame.

OTHER PRECAUTIONS