



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Aerosol, Inert, MK-4		DATE: November 12, 2010	
PRODUCT NUMBER(S): 5149			
TRADE NAME: Aerosol, Inert, MK-4 GENERAL USE: Practice Solution CHEMICAL FAMILY: Polar solvents PRODUCT DESCRIPTION: Clear liquid with bitter taste.	 DEFENSE TECHNOLOGY®		
MANUFACTURED FOR: Safariland, LLC	DATE PREPARED: November 12, 2010	SUPERSEDES: 2008 Editions	
ADDRESS (NUMBER, STREET, P.O. BOX) 13386 International Parkway	TELEPHONE NUMBER FOR INFORMATION / Customer Service 800-347-1200		
(CITY, STATE AND ZIP CODE) Jacksonville, FL 32218	COUNTRY USA	CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER  1-800-255-3924 01-813-248-0585 North America Toll Free International	

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
Product in container poses no exposure risk. Product Contents cause TEMPORARY acute eye, skin, digestive and respiratory system irritation under direct exposures; Indirect exposure may cause temporary, slight irritation to eyes. Containers may rupture and release irritating contents under fire conditions.			
POTENTIAL HEALTH EFFECTS			
ACUTE EXPOSURE EFFECTS			
INHALATION:			
Temporary burning sensation and irritation upon direct exposure, with cough and wheezing; some chest tightness may occur. Effects will be slight or non-existent from indirect exposure.			
SKIN:			
Temporarily irritating to skin through direct exposure; inflammation of mucosal surfaces seen with prolonged contact. Repeated contact may cause dermatitis. Effects will be slight or non-existent from indirect exposure.			
EYES:			
Temporary burning sensation and irritation, with pain, redness, and tearing from direct exposure. Indirect exposure produces slight symptoms. Repeated or prolonged direct exposure may product chemical conjunctivitis.			
INGESTION:			
Ingestion of large quantities may cause temporary inflammation of mouth and throat, nausea, vomiting, and/or diarrhea. Small amounts will produce an unpleasant taste only; this effect is also temporary.			
CHRONIC EXPOSURE EFFECTS			
Chronic dermal exposure may result in rash. Chronic eye exposure could result in conjunctival or corneal damage.			
CARCINOGENICITY:			
NTP? No	IARC MONOGRAPHS? No	OSHA REGULATED? No	
CALIFORNIA, Prop.65? No	ESIS? No		

SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Water	70-90	7732-18-5	231-791-2	None	None
Specialty Denatured Alcohol (SDA) 40B (c)	10-20	64-17-5(d)	200-578-6(d)	F	R11
Propylene Glycol USP	5-10	57-55-6	200-338-0	None	None

(c) - Contains trace amounts of t-Butyl alcohol and Bitrex (denatonium benzoate)
 (d) - CAS and EINECS Numbers reference Ethanol / Ethyl Alcohol

Notes: Hazard symbols and risk phrases based on maximum listed concentration of each hazardous ingredient. **WARNING: This product contains Ethanol, a chemical known to the state of California to cause developmental reproductive toxicity.**

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SECTION 4 - FIRST AID MEASURES

INHALATION:

Remove patient to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration.

EYES:

First check the victim for contact lenses and remove if present. Flush victim's eyes with water for at least 15 minutes. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. Seek medical attention for severe or continued irritation.

SKIN:

Remove contaminated clothing, rinse with cool water, then wash with cool water & soap.

INGESTION:**DO NOT INDUCE VOMITING!!** Rinse mouth with plenty of water. If conscious, give water, then seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

Combustible Solution- Flash Point estimated at >200°F (>94°C). Auto-Ignition temperature is 363°C (685°F) for ethanol. Explosive limits are 3.3-19.0% for ethanol as a pure substance; unknown for this product. Product is not sensitive to mechanical impact or static discharge.

EXTINGUISHING MEDIA:Use dry chemical, CO₂, or water spray. Wear self-contained breathing apparatus. All media forms are suitable.**FIRE FIGHTING PROCEDURES:**Use NIOSH or European EN149 approved chemical respirator. Use solvent-resistant type clothing with full jacket. Avoid absorption of product on clothing. If absorbed in clothing, remove and wash clothes at once. Use chemical-resistant goggles. Use dry chemical, CO₂, or water spray to fight surrounding fires.**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Pungent fumes may be emitted on exposure to elevated temperatures. Package is under pressure, and may release product when exposed to elevated temperatures.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon dioxide, carbon monoxide, water vapor, and other organic compounds in small quantities.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Soak up material with absorbent towel or material such as cat litter or sawdust and discard. Small quantities of product may be safely washed into sewers or bodies of water.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep product in cool, dry place.. Do not store at temperatures above 120° F / 49°C. Do not puncture, crush, or incinerate containers. Empty containers may contain irritating, flammable residues; use caution in disposal of product and containers. Do not eat, drink, or use tobacco while handling product.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Components	CAS #	ACGIH Exposure Limits	OSHA Exposure Limits
Water	7732-18-5	Not Established	Not Established
Specialty Denatured Alcohol (SDA) 40B	64-17-5	1000 ppm TWA	1000 ppm / 1900 mg/m ³ TWA
Propylene Glycol USP	57-55-6	Not Established	Not Established

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

A vapor respirator may be advisable or required under certain deployment conditions; consult manufacturer for further guidance.

PROTECTIVE GLOVES:

None required for handling unused product; where possible, use protective gloves for handling spent grenades.

EYE PROTECTION:

Safety glasses with side shields or face shield strongly suggested.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Local exhaust ventilation is suggest if product is discharged indoors in large quantities.

WORK / HYGIENIC PRACTICES:

Avoid breathing fumes from ignition. **DO NOT EAT/DRINK/SMOKE WHILE HANDLING PRODUCT!!!**

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Clear liquid with bitter taste.	VAPOR PRESSURE Not Established
pH Not determined	SPECIFIC GRAVITY (WATER = 1) Not Determined
MELTING / FREEZING POINT <32°F Estimated	SOLUBILITY IN WATER Miscible
BOILING POINT >220°F Estimated	SOLUBILITY IN ORGANIC SOLVENTS Variable - solution favors polar protic and polar aprotic solvents
FLASH POINT >200°F / 94°C	VISCOSITY Not Determined
FLAMMABLE LIMITS LEL: None UEL: None	VAPOR DENSITY (AIR = 1) Not Determined
AUTOIGNITION TEMPERATURE Not Determined for Product	EVAPORATION RATE (WATER = 1) Not Determined

VOLATILE ORGANIC COMPOUND (VOC) INFORMATION

Not applicable.

NOTES:

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions	CONDITIONS TO AVOID: Extreme heat, Incompatible materials
INCOMPATIBILITY (MATERIALS TO AVOID): Water-Reactive materials, Strong oxidizers, Mineral Acids (Sulfuric, Nitric, Perchloric, etc.)	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon dioxide, carbon monoxide, various hydrocarbons and small amounts of phosgene.	
HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.

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SECTION 11 - TOXICOLOGICAL INFORMATION

Complete Product

Oral LD₅₀	Not known - temporarily irritating to mouth and esophageal passages from direct exposure.
Dermal LD₅₀	Temporarily irritating to skin form direct exposure.
Inhalation LC₅₀	Vapors generated from use are temporarily irritating, mainly under direct exposure.
Irritation	Direct exposure to product causes temporary irritation to respiratory tract, skin and eyes.

Product Components

Hazardous Components	CAS #	LD50 of Ingredient (Oral, Rat - unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat - unless otherwise specified)
Water	7732-18-5	90 mL/kg	Not Established
Specialty Denatured Alcohol (SDA) 40B	7758-97-6	3450 (oral, mouse, as ethanol)	Not Established
Propylene Glycol	57-55-6	>20 g/kg	Not Established

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is presently available for this blended product.



SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose in accordance with all applicable Local, State and Federal regulations. Waste product may be discarded in to sewers after dilution with water, or may be sent to licensed facility for incineration.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: ORM-D (USA) Aerosols, Non-Flammable UN 1950 (Intl),

<p>DOT HAZARD CLASS / Pack Group: ORM-D USA Ground Only.</p> <p>REFERENCE: 49CFR</p> <p>UN / NA IDENTIFICATION NUMBER: ORM-D USA Ground Only. NA Air: UN1950 International: UN 1950</p> <p>LABEL: ORM-D (USA Ground Only), Non-Flammable Gas 2.2 (Intl)</p> <p>HAZARD SYMBOLS:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	<p>IATA HAZARD CLASS / Pack Group: Aerosols, non-flammable, 2.2, 75Kg passenger, 150Kg Cargo.</p> <p>IMDG HAZARD CLASS: 2.2</p> <p>RID/ADR Dangerous Goods Code: 2.2</p> <p>UN TDG Class / Pack Group: NA Air: 2.2</p> <p>Hazard Identification Number (HIN): 20</p>
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Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act):		All ingredients listed.	
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):			
Acute Health:	Yes	Chronic Health:	No
Fire:	No	Sudden Release of Pressure:	Yes
Reactive:	No		

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SECTION 15 - REGULATORY INFORMATION (Continued)

313 REPORTABLE INGREDIENTS: None

CERCLA (USA - Comprehensive Response Compensation and Liability Act): No RQ listed for product.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: Ethanol is listed as in alcoholic beverages; Not applicable to product.

CPR (Canadian Controlled Products Regulations): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. **WHMIS Classifications:** None.

CIDL (Canadian Ingredient Disclosure List): Components are listed in Section 3 to meet the CIDL requirements.

CDSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on DSL and/or NDSL.

EINECS (European Inventory of Existing Commercial Chemical Substances): Referenced.

WGK Water Quality Index: NE

RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
None		S2: Keep out of the reach of children.

SECTION 16 - OTHER INFORMATION

Legend			
N/A=Not Applicable	N/D=Not Determined	N/E = Not Established	N/R = Not Reported
HMIS HAZARD RATINGS 0 = INSIGNIFICANT , 1 = SLIGHT 2 = MODERATE, 3 = HIGH 4 = EXTREME	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	0 1 0 B	

REVISION SUMMARY: Revised 11/12/2010.

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.