






MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SPRAY SHIELD		DATE: February 15, 2012	
PRODUCT NUMBER:			
TRADE NAME: SPRAY SHIELD GENERAL USE: Animal control CHEMICAL FAMILY: NA PRODUCT DESCRIPTION: Aerosol container, clear non-flammable liquid containing carbon dioxide as a propellant.			
MANUFACTURER Radio Systems Corporation			
TELEPHONE NUMBER (General Inquiries) (800) 675-8360(NA) or +1(865)777-5454 (Intl.)		DATE PREPARED: February 15, 2012 SUPERSEDES: February 17, 2010	
ADDRESS (NUMBER, STREET, P.O. BOX) 10427 PetSafe Way (CITY, STATE AND ZIP CODE) COUNTRY Knoxville, TN 37932 USA		Chemtrec 24-HOUR EMERGENCY TELEPHONE NUMBERS	
		(800) 424-9300 USA and Canada	+1(703)527-3887 International Collect Calls Accepted

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
 Aerosol container containing carbon dioxide as a propellant. No hazardous materials present as defined by OSHA - 29 CFR 1910.1000; EPA - 40 CFR260 - 281, 302, 355, 370, 372; DOT - 49 CFR 172; WHMIS or EC Directive 91 / 155 / EEC.

US HAZARD SYMBOL(S)	Canada (WHMIS)	EUROPEAN	(GHS) HAZARD SYMBOLS
			

No EU/EEC symbols required (old style); use GHS symbol instead.

HMIS HAZARD RATINGS			
	HEALTH:	0	0 = INSIGNIFICANT
	FLAMMABILITY:	0	1 = SLIGHT, 2 = MODERATE
	PHYSICAL HAZARD:	0	3 = HIGH, 4 = EXTREME

REQUIRED PERSONAL PROTECTIVE EQUIPMENT:

HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER:		Safety glasses with side shields or safety goggles should be worn while using product.
A		

RISK PHRASES
Not classified

SAFETY PHRASES
Not classified

POTENTIAL HEALTH EFFECTS

INHALATION:
Gas may cause difficulty breathing, lightheadedness or drowsiness if directly inhaled.

SKIN:
Not likely to cause a problem due to high volatility of product. Direct spray on skin may cause frostbite.

EYES:
Direct contact with gas may cause irritation or thermal burns.

INGESTION:
High volatility of product precludes any likely hazards.

CARCINOGENICITY:

NTP? NO	IARC MONOGRAPHS? NO	OSHA REGULATED? NO
CALIFORNIA, Prop.65? NO		ESIS NOTATION? NO

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SECTION 3 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
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Aerosol container containing carbon dioxide as a propellant. No hazardous materials present as defined by OSHA - 29 CFR 1910.1000; EPA - 40 CFR 260 - 281, 302, 355, 370, 372; DOT - 49 CFR 172; WHMIS or EC Directive 91 / 155 / EEC or Reach.

NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1997/2006/EC (REACH). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 91/155/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.

SECTION 4 - FIRST AID MEASURES

INHALATION:

Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

EYES:

Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists or is severe, seek medical attention.

SKIN:

Wash affected area with soap and lukewarm water; if irritation persists, seek medical attention.

INGESTION:

Not expected under normal conditions due to gaseous state.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

FLASH POINT Non - flammable. Product is not flammable or combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide. Closed containers can rupture due to buildup of pressure when exposed to extreme heat. Contents under pressure. Do not use or store near heat sources.

EXTINGUISHING MEDIA:

Carbon dioxide, water, water fog, dry chemical, chemical foam.

FIRE FIGHTING PROCEDURES:

Self - contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers can explode due to buildup of pressure when exposed to extreme heat. Contents under pressure. Do not use or store near heat sources. Use water fog to cool containers in fire conditions.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, fumes or vapors, oxides of carbon.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Allow gas to escape to air. Remaining liquid may be absorbed on to an approved absorbent and placed in an approved container for disposal.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, keep away from sources of heat. Do not puncture container. Do not attempt to refill container. Maintain well ventilated work areas to minimize exposure when handling this material.

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION								
HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
No hazardous materials present as defined by OSHA - 29 CFR 1910.1000; EPA - 40 CFR260 - 281, 302, 355, 370, 372; DOT - 49 CFR 172; WHMIS or EC Directive 91 / 155 / EEC.								
PERSONAL PROTECTION								
RESPIRATORY PROTECTION: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134 or European Standard EN 149 for complete regulations.								
PROTECTIVE GLOVES: None required.								
EYE PROTECTION: Chemical splash goggles. Refer to 29 CFR 1910.133 or European Standard EN166.								
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyewash station nearby.								
WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.								
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES								
APPEARANCE AND ODOR Aerosol container, clear non-flammable liquid containing carbon dioxide as a propellant.				VAPOR PRESSURE NE				
pH 7.5-8.0				SPECIFIC GRAVITY (WATER = 1) ~1.00 for liquid contents not including propellant.				
BOILING POINT 212° F (100° C) (Liquid)				SOLUBILITY IN WATER Complete				
FLASH POINT None. Product is non-flammable.				VISCOSITY Like that of Water.				
FLAMMABLE LIMITS LEL: None UEL: None				VAPOR DENSITY (AIR = 1) >1				
AUTOIGNITION TEMPERATURE None. Product is non-flammable.				EVAPORATION RATE (WATER = 1) <1				
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION NR								
SECTION 10 - STABILITY AND REACTIVITY								
STABILITY Stable under normal temperatures and pressures.				CONDITIONS TO AVOID: Extreme temperatures, especially elevated temperatures				
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.								
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.								
HAZARDOUS POLYMERIZATION: Will not occur.				CONDITIONS TO AVOID: None related to polymerization.				
SECTION 11 - TOXICOLOGICAL INFORMATION								
Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)					
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SECTION 12 - ECOLOGICAL INFORMATION								
No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.								
SECTION 13 - DISPOSAL CONSIDERATIONS								
WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Consult your local, state, or federal agency before disposing of any chemicals.								

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SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: **Consumer Commodity** (Product may be shipped internationally as UN1950 class 2.2, non-flammable aerosol, less than 1 liter).

<p>DOT HAZARD CLASS / Pack Group: ORM - D / None for Ground Shipments</p> <p>REFERENCE: 49 CFR 173.306</p> <p>UN / NA IDENTIFICATION NUMBER: UN1950</p> <p>LABEL: ORM-D or 2.2 Non-flammable Gas</p> <p>HAZARD SYMBOLS:</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>	<p>IATA HAZARD CLASS / Pack Group: 2.2/Aerosol Non-flammable</p> <p>IMDG HAZARD CLASS: 2.2/Aerosol Non-flammable</p> <p>RID/ADR Dangerous Goods Code: 2,2/Aerosol Non-flammable</p> <p>UN TDG Class / Pack Group: UN1950/2.2/Aerosol</p> <p>Hazard Identification Number (HIN): None</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 components of this product are listed.**

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):

Acute Health:	NO	Chronic Health:	NO
Fire:	NO	Sudden Release of Pressure:	Yes
Reactive:	NO		

SARA 313 REPORTABLE INGREDIENTS: **None**

CERCLA (USA - Comprehensive Response Compensation and Liability Act): **None**

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: **None**

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 the information required by the Controlled Products Regulations. WHMIS Classification: A-Compressed Gas**



IDL (Canadian Ingredient Disclosure List): **Components listed.**

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): **Listed on DSL.**

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


WGK Water Quality Index: **NR**

SECTION 16 - OTHER INFORMATION

Legend:

- ACGIH American Congress of Government Industrial Hygienists
- CAS Chemical Abstracts Service
- EINECS European Inventory of Existing Commercial Chemical Substances
- HMIS Hazardous Materials Identification System
- IARC International Agency for Research on Cancer
- NA Not Available ND Not Determined
- NE Not Established NR Not Reported
- NIOSH National Institute for Occupational Safety and Health
- NTP National Toxicology Program
- OSHA Occupational Safety and Health Administration

REVISION SUMMARY: Revised to USA(ANSI), CANADA(WHMIS), EU & GHS standards 2/17/2010. Supersedes 6/23/2008 issue.-JTV--

<p>MSDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com</p>	
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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.