## SAFETY DATA SHEET

This document has been prepared to meet the requirements of the U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200, the EU Directive, 91/155/EEC and other regulatory requirements.

#### 1. Company and Product Identification

#### Product: Semios CRS Plus

Company: SemiosBio Technologies, Inc. 101-887 Great Northern Way Vancouver BC V5T 4T5 Canada

**For General Information:** (604) 229-2044

# Active Ingredient: (3S,6RS)-3-Methyl-6-isopropenyl-9-decen-1-yl acetate 5.5% None established Inert Ingredients: Solvent and propellant to 100% None established

#### 3. Hazards Identification

HAZARD CLASSIFICATION SIGNAL WORD HAZARD STATEMENTS	
PRECAUTIONARY STATEMENTS	. P101 IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND. P102 KEEP OUT OF REACH OF CHILDREN. P103 READ LABEL BEFORE USE.

#### 4. First Aid Measures

EMERGENCY FIRST AID PROCEDURE .... IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.

### 5. Fire Fighting Measures

	FLAMMABLE. EXCESSIVE HEAT, SPARKS AND OPEN FLAME. WATER FROM FOGGING NOZZLES MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT BUILD-UP IF EXPOSED TO EXTREME TEMPERATURES. FULL PROTECTIVE EQUIPMENT INCLUDING SELF CONTAINED BREATHING APPARTATUS SHOULD BE WORN IN A FIRE INVOLVING THIS MATERIAL.
EXPLOSION DATA	
SENSITIVITY TO STATIC DISCHAI SENSITIVITY TO IMPACT	
	. WATER, CARBON DIOXIDE, DRY CHEMICAL, FOAM.
PRODUCTS	HYDROCARBON FUMES AND SMOKE, CARBON
	MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
AEROSOL FLAME PROJECTION CLASSIFIED AS: FLASHBACK	. <15cm.

#### 6. Accidental Release Measures

LEAK/SPILL	. REMOVE ALL SOURCES OF IGNITION. USE AN INERT
	ABSORBENT MATERIAL, AND NON-SPARKING TOOLS.
	VENTILATE AREA. PREVENT FROM ENTERING A
	WATERCOURSE.

## 7. Handling and Storage

KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.
VENTILATION - LOCAL (MECHANICAL IF
INDOORS ON A CONTINUOUS BASIS).
STORE IN A COOL, WELL VENTILATED AREA NOT TO
EXCEED 50 DEG C.
NONE KNOWN.

### 8. Exposure Control / Personal Protection

GLOVES/ TYPE	WEAR CHEMICAL RESISTANT GLOVES.
	IF USED INDOORS ON A CONTINUOUS BASIS, USE OF
	A CARTRIDGE TYPE RESPIRATOR (NIOSH/MSHATC
	23C OR EQUIVALENT) IS RECOMMENDED.
EYE/TYPE	. SAFETY GLASSES.
FOOTWEAR/TYPE	NOT NORMALLY REQUIRED.
OTHER/TYPE	NOT REQUIRED.
EXPOSURE LIMIT OF MATERIAL	SEE SECTION 2.

#### Exposure Guidelines (Propellant):

SUBSTANCE	ACGIH TLV	OSHA PEL		NIOSH REL	
	(STEL)	(TWA)	(STEL)	(TWA)	(STEL)
Propane		1000 ppm		1000 ppm	
n-Butane	—			800 ppm	
Isobutane	—			800 ppm	

## 9. Physical and Chemical Properties

PHYSICAL STATE	
APPEARANCE	
ODOR	
ODOR THRESHOLD	
рН	
FREEZING POINT: (°C)	. NOT AVAILABLE.
BOILING POINT (°C)(CONC)	LOWEST KNOWN VALUE IS ETHANOL @78.5C.
FLASH POINT(°C), TAG CLOSED-CUP	LOWEST KNOWN VALUE IS ETHANOL @ 13C.
(CONCENTRATE)	
EVAPORATION RATE	. GREATER THAN 1.
n-BUTYL ACETATE = 1	
	. 19.
(% BY VOLUME)	
	. 3.3.
	60.70
VAPOUR PRESSURE(PSIG)-AEROSOL @ 20 C	. 60-70.
VAPOUR DENSITY (AIR=1)	GREATER THAN 1
(BY WEIGHT)	OREATER THAN I.
SPECIFIC GRAVITY (AEROSOL)	. 0.61-0.65.
SPECIFIC GRAVITY (LIQUID)	
SOLUBILITY IN WATER g/L (20°C)	
COEFFICIENT OF WATER\OIL DIST	. NOT AVAILABLE.
AUTO IGNITION TEMPERATURE (°C)	. 422.

## 10. Stability and Reactivity

HAZARDOUS PRODUCTS OF	
DECOMPOSITION	. HYDROCARBON FUMES AND SMOKE. CARBON
	MONOXIDE WHERE COMBUSTION IS INCOMPLETE.
CHEMICAL STABILITY:	
YES	
NO, WHICH CONDITIONS?	NOT APPLICABLE.
COMPATIBILITY WITH OTHER	
SUBSTANCES:	
NO, WHICH ONES?	
REACTIVITY CONDITIONS?	. NOT APPLICABLE.

#### **11. Toxicological Information**

ETHANOL (Ethyl Alconol)	LC50: 31,623 ppm (4 hr) INHAL - RAT LD50: 7060 mg/kg ORAL – RAT
(3S,6RS)-3-Methyl-6-isopropenyl-9-decen-1	LD30.7000 mg/kg OTAL = TAT
	LC50: 142,500 ppm (4h) INHAL - RAT
	LD50: NOT APPLICABLE
PROPANE	
	LD50: >5000 mg/kg DERMAL-RABBITS
ROUTE OF ENTRY:	
	. INHALATION OF SOLVENTS MAY CAUSE IRRITATION.
	PROPELLANT IS A SIMPLE ASPHYXIANT.
INGESTION	MAY CAUSE HEADACHE, NAUSEA, VOMITING AND
	WEAKNESS.
EYE CONTACT	MAY CAUSE IRRITATION.
SKIN CONTACT	
SKIN ABSORPTION	. ETHANOL CAN BE ABSORBED IN TOXIC AMOUNTS,
	ESPECIALLY FROM PROLONGED OR REPEATED
	EXPOSURE.
	DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES.
	. SOLVENTS MAY CAUSE DEFATTING DERMATITIS
CARCINOGENICITY OF MATERIAL	THE INGREDIENTS OF THIS PRODUCT ARE NOT
	LISTED AS CARCINOGENS BY NTP, (NATIONAL
	TOXICOLOGY PROGRAM), NOT REGULATED AS
	CARCINOGENS BY OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND HAVE NOT BEEN
	EVALUATED BY IARC, (INTERNATIONAL AGENCY FOR
	RESEARCH ON CANCER), NOR BY ACGIH (AMERICAN
	CONFERENCE OF GOVERNMENTAL INDUSTRIAL
	HVCIENISTS)
MUTAGENICITY	. NO INFORMATION IS AVAILABLE AND NO ADVERSE
	MUTAGENIC EFFECTS ARE ANTICIPATED.
TERATOGENICITY	NO INFORMATION IS AVAILABLE AND NO ADVERSE
	TERATOGENIC EFFECTS ARE ANTICIPATED.
REPRODUCTIVE EFFECTS	. NO INFORMATION IS AVAILABLE AND NO ADVERSE
	REPRODUCTIVE EFFECTS ARE ANTICIPATED.
SENSITIZING CAPABILITY OF MATERIAL	UNKNOWN.

#### 12. Environmental Information

ENVIRONMENTAL..... NOT AVAILABLE

#### 13. Disposal

WASTE DISPOSAL...... DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.

#### 14. Transportation Information

#### **15. Regulatory Information**

## CANADIAN REGULATIONS:

WHMIS CLASSIFICATION NOT APPLICABLE. CNFC SECTION 3.3.5 LEVEL 3. CEPA (Canadian Environmental Protection Act) ALL SUBSTANCES IN THIS PRODUCT ARE LISTED O THE CANADIAN DOMESTIC SUBSTANCES LIST (DS OR ARE NOT REQUIRED TO BE LISTED.	
U.S. REGULATIONS:	
HMIS RATING HEALTH	ECT
TO THE REPORTING REQUIREMENTS OF SECTION OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372 CAS #: CHEMICAL NAME: . N/A. THE FOLLOWING STATEMENT IS MADE IN ORDER COMPLY WITH THE CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986: WARNING: THIS PRODUCT DOES NOT INTENTIONA CONTAIN ANY CHEMICALS KNOWN TO THE STATE	I 313  TO ALLY ∶OF
CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OTHER REPRODUCTIVE HARM. CAS #: CHEMICAL NAME: N/A. TSCA (Toxic Substances Control Act) ALL COMPONENT OF THIS PRODUCT ARE LISTED ( THE TSCA INVENTORY. ANY IMPURITIES PRESENT THIS PRODUCT IS EXEMPT FROM LISTING.	NC

#### 16. Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of manufacturer's knowledge and is applicable to the product with regard to appropriate safety precautions. SemiosBIO Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the above product