



SAFETY DATA SHEET

SECTION I – IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

TRADE NAME:	CheckMate® CRS SDX-AA2
SYNONYMS:	70 mg Experimental California Red Scale (CRS) mating disruption dispensers
USE:	CRS dispensers are hand-applied products that emit the pheromone of the California Red Scale (<i>Aonidiella aurantii</i>). The product is used in agriculture to control populations of this pest via mating disruption.
COMPANY IDENTIFICATION:	Suterra LLC 20950 NE Talus Place Bend, Oregon 97701 U.S.A. TEL: (541) 388-3688 FAX: (541) 388-3705
EMERGENCY TELEPHONE NUMBERS:	
LEAK, FIRE, SPILL, OR ACCIDENT:	(800) 424-9300 (CHEMTREC – U.S.A. & CANADA) (703) 527-3887 (CHEMTREC – Collect - All Other Countries)
MEDICAL:	Call Doctor, Poison Control Center or (541) 388-3688

SECTION II – HAZARDS IDENTIFICATION

The following determinations have been made according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals:

GHS Signal Word: NONE REQUIRED

GHS Symbols: NONE REQUIRED

GHS Hazard Statements: NONE REQUIRED

GHS Precautionary Statements: NONE REQUIRED

SECTION III - COMPOSITION			
PRINCIPAL COMPONENT(S)	CAS NO.	CHEMICAL FORMULA	APPROXIMATE W/W %
(3S, 6R)-3-methyl-6-isopropenyl-9-decen-1-yl acetate	67601-06-3	C ₁₆ H ₂₈ O ₂	~ 3%
(3S, 6S)-3-methyl-6-isopropenyl-9-decen-1-yl acetate	67601-10-9	C ₁₆ H ₂₈ O ₂	~ 3%
Note: CRS dispensers utilize inert polymer ingredients that are commonly used throughout many industries and products. Exact identities and concentrations in the end-use dispensers are not disclosed here for trade secret reasons. The properties and effects of these common polymers have been evaluated as part of the Hazard Classification of this hand-applied dispenser product.			
SECTION IV – FIRST AID MEASURES			
EYE			
CONTACT:	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if worn after the first five minutes and continue rinsing. Call a doctor or Poison Control Center for advice.		
SKIN			
CONTACT:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a doctor or Poison Control Center for advice.		
INHALATION:	Move person to fresh air. If person is not breathing call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth if possible. Call a doctor or Poison Control Center for advice.		
INGESTION:	Call a doctor or Poison Control Center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.		
SECTION V – FIREFIGHTING MEASURES			
FLASH POINT (Method Used)	FLAMMABLE LIMITS (% by Volume in Air)	LEL	UEL
Not established for end-use dispenser. > 93°C for CRS pheromone active ingredient	Not established.	Not established.	Not established.
EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide (CO ₂)			
UNUSUAL FIRE AND EXPLOSION HAZARDS: Carbon oxides formed when burned.			
ADVICE FOR FIREFIGHTERS: Evacuate area of all unnecessary personnel. Use standard fire fighting procedures.			
SECTION VI – ACCIDENTAL RELEASE MEASURES			
Large spills can be swept up. Protect from ignition. Keep out of water sources or sewers.			
SECTION VII – HANDLING AND STORAGE			
Wear protective equipment described in Section VIII. Avoid skin and eye contact. Avoid breathing vapors. Store in cool, well ventilated area. Protect from ignition. Wash hands after handling. Do not allow product to contaminate water sources, food or feed.			

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION	
EXPOSURE LIMIT VALUES	
RECOMMENDED EXPOSURE LIMITS: None established.	
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA:	No.
OTHER HEALTH EFFECTS:	No known adverse effects expected.
HEALTH HAZARD CATEGORIES:	EPA Toxicity Category: III - CAUTION.
EFFECTS OF OVEREXPOSURE	
EYE CONTACT:	Pheromone is mildly irritating. Avoid contact with eyes when in contact with dispenser membrane.
SKIN CONTACT:	Pheromone can be mildly irritating on sensitive subjects. Avoid contact of skin with dispenser membrane.
INHALATION:	Avoid breathing vapors when in confined areas.
INGESTION:	Due to product form ingestion is not considered likely.
CHRONIC:	Long-term studies have not been done on the concentrated active ingredient, however, no adverse effects are expected from active ingredient pheromones or dispenser.
EXPOSURE CONTROLS	
RESPIRATORY PROTECTION:	Not generally required under normal use conditions.
PROTECTIVE GLOVES:	Use chemical resistant gloves when handling dispensers.
EYE PROTECTION:	Wear protective eyewear.
OTHER PROTECTIVE EQUIPMENT:	Not generally required under normal use conditions.
VENTILATION:	Use adequate ventilation.
NOTE:	Personal protection information provided in this Section is based upon label information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.
SECTION IX –PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE	Plastic hand-applied dispenser.
ODOR	Sour odor.
MOLECULAR WEIGHT	Not established for end-use dispenser. ~252 for CRS pheromone active ingredient.
pH	Not established
SOLUBILITY IN WATER	Not applicable for end-use dispenser. < 2.77 mg/L for CRS pheromone active ingredient.
BOILING POINT	Not applicable for end-use dispenser. 416.2 K @ >1.03 kPa for CRS pheromone active ingredient.

MELTING POINT	Not applicable for end-use dispenser. CRS pheromone active ingredient is a liquid at room temperature.																				
FLASH POINT	Not established for end-use dispenser. > 93 °C for CRS pheromone active ingredient.																				
SPECIFIC GRAVITY (H ₂ O = 1)	Not established for end-use dispenser. 0.904 g/mL @ 20°C for CRS pheromone active ingredient.																				
EXPLOSIVE PROPERTIES	Not established																				
OXIDIZING PROPERTIES	Not established																				
SECTION X – STABILITY AND REACTIVITY DATA																					
STABILITY:	The product is stable. No dangerous reactions are expected. Pheromone is sensitive to heat and light.																				
INCOMPATIBILITY:	Pheromone is compatible with oxidizing and reducing agents.																				
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon oxides formed when burned.																				
HAZARDOUS POLYMERIZATION:	Will not occur.																				
SECTION XI – TOXICOLOGICAL INFORMATION																					
<p>Due to the formulation type, no studies have been performed on the end-use product. Information about the pheromone active ingredient is reported here:</p> <p><u>California Red Scale (CRS) Pheromone:</u></p> <table> <tr> <td>Acute Oral (rat):</td><td>> 5,000 mg/Kg</td></tr> <tr> <td>Acute Dermal (rat):</td><td>> 5,050 mg/Kg</td></tr> <tr> <td>Primary Eye Irritation (rabbit):</td><td>Mildly irritating</td></tr> <tr> <td>Primary Skin Irritation (rabbit):</td><td>Non-irritating</td></tr> <tr> <td>Acute Inhalation:</td><td>No data found</td></tr> <tr> <td>Ames Mutation Assay:</td><td>No data found</td></tr> <tr> <td>Skins Sensitization:</td><td>No data found</td></tr> <tr> <td>Carcinogenicity:</td><td>No data found</td></tr> <tr> <td>Reproductive toxicity:</td><td>No data found</td></tr> <tr> <td>Target organ toxicity:</td><td>No data found</td></tr> </table>		Acute Oral (rat):	> 5,000 mg/Kg	Acute Dermal (rat):	> 5,050 mg/Kg	Primary Eye Irritation (rabbit):	Mildly irritating	Primary Skin Irritation (rabbit):	Non-irritating	Acute Inhalation:	No data found	Ames Mutation Assay:	No data found	Skins Sensitization:	No data found	Carcinogenicity:	No data found	Reproductive toxicity:	No data found	Target organ toxicity:	No data found
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SECTION XII – ECOLOGICAL INFORMATION																					
<p>Due to the formulation type, no studies have been performed on the end-use product. The active ingredient contained in the product is synthetic replica of the naturally occurring CRS arthropod pheromone and is applied at rates less than 150 grams/acre/year. As such, this active ingredient pheromone is currently exempted from the requirement to submit non-target toxicity and environmental fate data as per 40 CFR 158.2060(a)(2) to support the product's registration. No ecological problems are anticipated to result from the use of this product as registered and labeled.</p>																					
SECTION XIII – DISPOSAL CONSIDERATIONS																					
<p>ENVIRONMENTAL HAZARDS/ WASTE DISPOSAL:</p> <p>Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the high water mark. Do not contaminate water when disposing of dispensers.</p> <p>Used dispensers should be wrapped in newspaper, placed in garbage bags and discarded. Do not reuse containers. Discard in trash. Dispose of in accordance with local, state, and federal regulations.</p>																					

USED DISPENSER AND CONTAINER DISPOSAL:

Used dispensers should be wrapped in newspaper, placed in garbage bags and discarded in trash.
Nonrefillable container. Do not reuse or refill containers.

Plastic containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Bag/Cardboard box: Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION XIV – TRANSPORT INFORMATION

TRANSPORT BY GROUND:

Description: Plastic hand-applied pheromone dispenser.
Hazard Class: Not applicable. DOT - Not classified as dangerous.
Identification Numbers: Unclassified.
Packing Group: Not applicable.
Flashpoint: Not established for end-use dispenser.
> 93 °C for CRS pheromone active ingredient

TRANSPORT BY SEA:

Description: Plastic hand-applied pheromone dispenser.
Hazard Class: Not applicable. IMDG - Not classified as dangerous.
Identification Numbers: Unclassified.
Packing Group: Not applicable.
Flashpoint: Not established for end-use dispenser.
> 93 °C for CRS pheromone active ingredient

TRANSPORT BY AIR:

Description: Plastic hand-applied pheromone dispenser.
Hazard Class: Not applicable. IATA - Not classified as dangerous.
Identification Numbers: Unclassified.
Hazard Label: None required.
Packing Group: Not applicable.
Flashpoint: Not established for end-use dispenser.
> 93 °C for CRS pheromone active ingredient

SECTION XV – REGULATORY INFORMATION

REGULATORY LICENSE: This experimental product is not yet registered for sale by U.S. EPA.

SECTION XVI – OTHER INFORMATION

While this information and recommendations set forth are believed to be accurate as of the date hereof, Suterra LLC makes no warranty with respect hereto and disclaims all liability from reliance thereon.

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Preparer: R. Trager