


Product no. RM-SMAR-XX
 Product name **NoMate® NOW Smart Release**
 Scientific name *Amyelois transitella*
 EPA Reg. No. 36638-XX

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1	Product identifier NoMate® NOW Smart Release
1.2	Relevant identified uses of the substance or mixture and uses advised against NoMate® NOW Smart Release is a pheromone communication disruptant for control of Navel orange worm (<i>Amyelois transitella</i>). The aerosol canister is used in combination with Scentry's emitter for metered release of pheromone.
1.3	Details of the supplier of the safety data sheet *See 7.3 Scentry Biologicals, Inc. 610 Central Ave. Billings, MT 59102 scentry@scentry.com Tel: 1-(406)-248-5856 Fax: 1-(406)-245-2790
1.4	Emergency Telephone number 1-(800)-735-5323

SECTION 2: HAZARDS IDENTIFICATION	
2.1	Classification of the substance or mixture HMIS Hazard Classifications Health =1 Flammability =0 Physical Hazard =1 DPD Classifications Xi
2.2	GHS Classification and Labeling Signal Word Danger Hazard pictograms GHS02 GHS07  
	Hazard Statements H222 Flammable aerosol H229 Pressurized container: may burst if heated H313 May be harmful in contact with skin H315 Causes skin irritation H320 Causes eye irritation H333 May be harmful if inhaled
	S-phrases S2 Keep out of reach of children. S13 Keep away from food, drink and animal feeding stuffs. S46 If swallowed, seek medical advice immediately and show this container or label. S20/S21, S24/S25, S26, S28 When using this product do not eat, drink or smoke, avoid contact with skin and eyes, after contact with skin, wash immediately with plenty of soap and water. S36/S37 Wear suitable protective clothing and gloves.
	Precautionary statements P103 Read Label before use P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking P251 Pressurized container: Do not pierce or burn, even after use. P264 Wash Hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 If on skin: Wash with plenty of soap and water. P302+P351+P338 If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do.
2.3	Other hazards None known

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS				
3.1	Substance (s)	Product Identifier (CAS No.)	%	Synonym (s)
	(Z,Z)-11,13-Hexadecadien-1-ol	71317-73-2	2.12	NOW pheromone
	Other ingredients	N/A	97.88	Trade secret, non-hazardous

SECTION 4: FIRST AID MEASURES	
4.1	Description of first aid measures
	Inhalation Remove to fresh air. Seek medical attention if symptoms persist.
	Skin contact Remove contaminated clothing and wash well with soap and water. Seek medical attention if symptoms persist.
	Eye contact Irrigate with water for at least 15 minutes. Seek medical attention if symptoms persist.
	Ingestion If ingested rinse mouth with water. Seek medical attention if symptoms persist.
4.2	Most important symptoms and effects, both acute and delayed Primarily irritation
4.3	Indication of any immediate medical attention and special treatment needed Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES	
5.1	Extinguishing media Foam or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.
5.2	Special hazards arising from the substance or mixture The essential breakdown products are carbon monoxide, carbon dioxide and water.
5.3	Advice for firefighters Use standard fire fighting techniques.



SECTION 6: ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and emergency procedures Avoid contact with eyes, skin and clothes. See section 8 for further detail on personal protective equipment.
6.2	Environmental precautions Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of water sources and sewers.
6.3	Methods and materials for containment and cleaning up Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.
6.4	Reference to other sections See section 7 for fire prevention. See section 8 for personal protection. See section 13 for disposal.

SECTION 7: HANDLING AND STORAGE	
7.1	Precautions for safe handling General precautions to be taken with handling. Avoid contact with eyes, skin and clothes.
7.2	Conditions for safe storage, including any incompatibilities Store in cool, dry area out of direct sunlight. Keep storage container closed until ready to use. Keep away from food, feedstuffs, and domestic water supplies.
7.3	Specific end use(s) NoMate® NOW Smart Release is a pheromone communication disruptant for control of Navel orange worm (<i>Amyelois transitella</i>). The aerosol canister is used in combination with Scentry's emitter for metered release of pheromone.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1	Personal exposure limits To our knowledge, no personal exposure limits have been established for end-use product.
8.2	Exposure controls Keep away from foodstuffs, beverages and food. Avoid contact with eyes and skin. Wash thoroughly after handling.
	Respiratory protection None required, if the room is well-ventilated. Use with local ventilation
	Protective gloves None required, but vinyl, latex or rubber gloves is recommended for continuous handling. The exact break through time of the various types of protective gloves has to be found out by the manufacturer and has to be observed.

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	Eye protection.....	None required, but chemical goggles or shielded safety glasses are recommended.
	Other skin protection	Wear suitable protective clothing.
NOTE:		Personal protection information shown above is based upon general 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 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on physical and chemical properties		
Appearance		Aerosol
Odor		Powerful, Waxy
Odor threshold		Not determined
pH		7-8
Melting point/Freezing point		Not determined
Initial boiling point and boiling range		Not determined
Flash point		Not determined
Evaporation rate		Not determined
Flammability (solid/gas)		Extremely flammable
Upper/ lower flammability or explosive limits		Not determined
Vapor pressure		Not determined
Vapor density		Not determined
Relative density		0.7-0.8 g/ml @ 20°C
Solubilities		Solubility at 20°C in water: insoluble
Viscosity		Not determined
Explosive properties		May cause bursting if exposed to temperatures above 130°F
Oxidizing properties		Not oxidizing
Decomposition temperature		Not determined
Auto-ignition temperature.....		Not determined
Partition coefficient: n-octanol/water		Not determined
9.2 Other Information		
		None

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	To our knowledge, the product has no special reactivities.
10.2	Chemical stability	Stable at ambient temperatures while in storage and while being handled.
10.3	Possibility of hazardous reactions	Thermally decomposition products may include CO, CO ₂ , H ₂ O.
10.4	Conditions to avoid	Excessive heat, sparks, open flame or other possible sources of ignition.
10.5	Incompatible materials	None known.
10.6	Hazardous decomposition products	See Section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects		
Acute toxicity		This product contains a straight chain lepidopteran pheromone, a class of pheromones with no expected risks to human health or non-target organisms. The following toxicity data is for the active ingredient: (Z,Z)-11,13-Hexadecadienal
Route(s) of Entry	- skin (most likely)	LD ₅₀ , dermal: >2020 mg/kg
	-ingestion	LD ₅₀ , oral: >5050 mg/kg
	-inhalation	LD ₅₀ , inhalation: Not determined
		No adverse effects due to inhalation are expected.
Delayed, immediate, or chronic effects from short term exposure		Not determined
Delayed, immediate, or chronic effects from long term exposure		Not determined
Symptoms		May cause mild to moderate skin and eye irritation
Indication of whether the chemical is listed in the NTP, or has found to be carcinogenic by the IARC or OSHA		Not determined

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SECTION 12: ECOLOGICAL INFORMATION		
12.1	Toxicity The ecotoxicity of the active ingredient is measured as:	
	- Fish 96-h LC ₅₀	Not determined
	- Algae 72-h LOEC	Not determined
	- Daphnia 48-h LC ₅₀	Not determined
	- Bees 48-h LD ₅₀ , contact	Not determined
	48-h LD ₅₀ , oral	Not determined
12.2	Persistence in degradability	Easily decompose to carbon monoxide, carbon dioxide and water.
12.3	Bioaccumulative potential	Not determined
12.4	Mobility in soil	Not determined
12.5	Results of PBT and vPvB assessment	Not determined
12.6	Other adverse effects	None

SECTION 13: DISPOSAL CONSIDERATIONS	
13.1	Waste treatment methods
	Disposal of product Do not contaminate water, foodstuffs, feed, seed or sewage water by storage or disposal. Full or partially full cans must be depressurized before disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. To minimize exposure see section 8.
	Disposal of packaging Dispose of empty cans in recycling or landfill.

SECTION 14: TRANSPORT INFORMATION	
14.1	UN number UN 1950
14.2	UN proper shipping name Aerosols, Flammable
	Ground UN 1950, Aerosols, Flammable (each not exceeding 1 L capacity), Class 2.1
	Air UN 1950, Aerosols, Flammable, Class 2.1
	Marine UN 1950, Aerosols, Flammable, Class 2.1
14.3	Transport hazard class(es) Class: 2.1
14.4	Packing group Not applicable
14.5	Environmental hazards None known
14.6	Special precautions for user None known
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code The product is not transported in bulk tankers.

SECTION 15: REGULATORY INFORMATION	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	Restrictions on use: Not Known
	Reference Section 4 and Section 8 for first aid measures and exposure controls.
	This product is registered with the U.S. EPA under EPA Reg. No. 36638-46

SECTION 16: OTHER INFORMATION

Disclaimer: All information contained in this Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion, the information is, as of the date of this Safety Data Sheet, reliable. However, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability in completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees.

Prepared by: Scentry Biologicals, Inc.