


Product no. N/A  
 Product name **NoMate® LRX Spiral**  
 Scientific name *Christoneura rosaceana, Pandemis pyrusana*  
 EPA Reg. No. 36638-45

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**SAFETY DATA SHEET**

<b>SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>	
1.1	<b>Product identifier</b> ..... <b>NoMate® LRX Spiral</b>
1.2	<b>Relevant identified uses of the substance or mixture and uses advised against</b> NoMate® LRX Spiral is a pheromone communication disruptant for control of oblique banded leafroller and pandemis leafroller ( <i>Christoneura rosaceana</i> , <i>Pandemis pyrusana</i> ).
1.3	<b>Details of the supplier of the safety data sheet</b> <b>Scentry Biologicals, Inc.</b> 610 Central Ave. Billings, MT 59102 scentry@scentry.com Tel: 1-(406)-248-5856 Fax: 1-(406)-245-2790
1.4	<b>Emergency Telephone number</b> <b>1-(800)-735-5323</b>

<b>SECTION 2: HAZARDS IDENTIFICATION</b>	
2.1	<b>Classification of the substance or mixture</b> HMIS Hazard Classifications Health =1 Flammability =1 Reactivity =0
	DPD Classifications Xi
2.2	<b>GHS Classification and Labeling</b>
	Signal Word Warning
	Hazard pictograms GHS07 
	<b>Hazard Statements</b> H315 ..... Causes skin irritation.
	<b>S-phrases</b> 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.
	<b>Precautionary statements</b> 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. P362 ..... Take off contaminated clothing and wash before reuse.
2.3	<b>Other hazards</b> None known

<b>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>			
3.1	<b>Substance (s)</b>	<b>Product Identifier (CAS No.)</b>	<b>%</b>
	<b>(Z)-11-Tetradecen-1-yl Acetate</b>	20711-10-8	9.0
			<b>Synonym (s)</b> Z)-11-Tetradecen-1-yl-acetate (Z)-11-Tetradecenyl acetate cis-11-Tetradecenyl acetate
	<b>Inert Material</b>	N/A	91.0
			N/A

<b>SECTION 4: FIRST AID MEASURES</b>	
4.1	<b>Description of first aid measures</b>
	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.

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Ingestion	If ingested rinse mouth with water. Seek medical attention if symptoms persist.
4.2 <b>Most important symptoms and effects, both acute and delayed</b>	Primarily irritation
4.3 <b>Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically

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

<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>	
6.1 <b>Personal precautions, protective equipment and emergency procedures</b>	Avoid Contact with eyes, skin and clothes. See section 8 for further detail on personal protective equipment.
6.2 <b>Environmental precautions</b> .....	Keep out of water sources and sewers
6.3 <b>Methods and materials for containment and cleaning up</b>	Securely wrap container or spilled material in several layers of newspaper and discard in trash.
6.4 <b>Reference to other sections</b> .....	See section 7 for fire prevention. See section 8 for personal protection. See section 13 for disposal.

<b>SECTION 7: HANDLING AND STORAGE</b>	
7.1 <b>Precautions for safe handling</b> .....	General precautions to be taken with handling. Avoid contact with eyes, skin and clothes.
7.2 <b>Conditions for safe storage, including any incompatibilities</b>	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 <b>Specific end use(s)</b> .....	NoMate® LRX Spiral is a pheromone communication disruptant for control of oblique banded leafroller and pandemis leafroller ( <i>Christoneura rosaceana</i> , <i>Pandemis pyrusana</i> ).

<b>SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
8.1 Personal exposure limits .....	To our knowledge, no personal exposure limits have been established for any of the components in this product. However, exposure limits may be defined by local regulations and must be observed.
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.
 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.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>9.1 Information on physical and chemical properties</b>		
Appearance .....		Black polymer spiral
Odor .....		Fatty, mild
Odor threshold .....		Not determined
pH .....		Not determined
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) .....		Not highly flammable
Upper/ lower flammability or explosive limits .....		Not determined
Vapor pressure .....		Not determined
Vapor density .....		Not determined
Relative density .....		Not determined
Solubilities .....		Solubility at 20°C in water: insoluble
Viscosity .....		Not determined
Explosive properties .....		Not explosive
Oxidizing properties .....		Not oxidizing
Decomposition temperature .....		Not determined
Auto-ignition temperature .....		Not determined
Partition coefficient: n-octanol/water .....		Not determined
<b>9.2 Other Information</b>		
		None

**SECTION 10: STABILITY AND REACTIVITY**

10.1	<b>Reactivity</b> .....	To our knowledge, the product has no special reactivities.
10.2	<b>Chemical stability</b> .....	Stable at ambient temperatures while in storage and while being handled.
10.3	<b>Possibility of hazardous reactions</b> .....	Thermally decomposition products may include CO, CO <sub>2</sub> , H <sub>2</sub> O.
10.4	<b>Conditions to avoid</b> .....	Acids, peroxides and other oxidizing agents.
10.5	<b>Incompatible materials</b> .....	None known.
10.6	<b>Hazardous decomposition products</b> .....	See Section 5

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>		
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.
Route(s) of Entry	- skin (most likely)	LD <sub>50</sub> , dermal: Not determined
	-ingestion	LD <sub>50</sub> , oral: Not determined
	-inhalation	LD <sub>50</sub> , inhalation: Not determined
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

**SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>		
The ecotoxicity of the active ingredient is measured as:		
- Fish	96-h LC <sub>50</sub>	Not determined
- Algae	72-h LOEC	Not determined
- Daphnia	48-h LC <sub>50</sub>	Not determined
- Bees	48-h LD <sub>50</sub> , contact	Not determined
	48-h LD <sub>50</sub> , oral	Not determined
12.2	<b>Persistence in degradability</b> .....	Easily decompose to carbon monoxide, carbon dioxide and water.
12.3	<b>Bioaccumulative potential</b> .....	Not determined

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12.4	<b>Mobility in soil</b> .....	Not determined
12.5	<b>Results of PBT and vPvB assessment</b> .....	Not determined
12.6	<b>Other adverse effects</b>	None

<b>SECTION 13: DISPOSAL CONSIDERATIONS</b>		
13.1	<b>Waste treatment methods</b>	
	Disposal of product .....	Do not contaminate water, foodstuffs, feed, seed or sewage water by storage or 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 .....	Do not reuse empty pouch. Discard pouch as according to all applicable local regulations.

<b>SECTION 14: TRANSPORT INFORMATION</b>		
14.1	<b>UN number</b> .....	Not determined
14.2	<b>UN proper shipping name</b> .....	The product is not classified as hazardous material for both national and international transport by road or rail, by sea or air.
14.3	<b>Transport hazard class(es)</b> .....	Not determined
14.4	<b>Packing group</b> .....	Not determined
14.5	<b>Environmental hazards</b> .....	None known
14.6	<b>Special precautions for user</b>	None known
14.7	<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code</b>	The product is not transported in bulk tankers.

<b>SECTION 15: REGULATORY INFORMATION</b>		
15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	<p>Warning. May cause an allergic skin reaction if on skin – wash with plenty of soap and water. If skin irritation occurs: get medical advice. Avoid breathing fumes. When applying, wear gloves. Do not eat drink or smoke while using. Wash hands before meals and after work. Wash protective gloves after work. Contaminated clothing should not be allowed out of the workplace.</p> <p>Toxic to aquatic life. NoMate® LRX Spirals are NOT to be applied onto or into water. Do not contaminate streams, rivers, or water ways with used product of packaging.</p> <p><b>CAUTION</b>          Keep out of reach of children.          Reference Section 4 and Section 8 for first aid measures and exposure controls.</p> <p>This product is registered with the U.S. EPA under EPA Reg. No. 36638-45          All Products are categorized under U.S. EPA Toxicity and Health Hazard Category III- CAUTION</p>

<b>SECTION 16: OTHER INFORMATION</b>		
<p><b>Disclaimer:</b> 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.</p> <p><b>Prepared by: Scentry Biologicals, Inc.</b></p>		