

Product Name: Spod-X LC
Emergency Information: Chem Tel (800) 255-3924
Outside North America Call Collect (813) 248-0585

MATERIAL SAFETY DATA SHEET

Certis USA
9145 Guilford Road, Suite 175
Columbia, MD 21046

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME..... : Spod-X LC
PRODUCT CODE..... : 131003
CHEMICAL FAMILY : Biological
CHEMICAL NAME..... : Spodoptera exigua nucleopolyhedrosis virus (SeNPV)
FORMULA..... : N/A

EMERGENCY TELEPHONE NUMBERS:

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2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS #</u>	<u>WT.%</u>	<u>OSHA PEL</u>	<u>TWA</u>	<u>TLV's</u>	<u>STEL</u>
Naturally occurring nuclear polyhedrosis virus of <u>Spodoptera exigua</u> Glycerol / Water		0.64				

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a brown liquid intended for use as an insecticide on agricultural, greenhouse, and nursery crops. This product should pose no health concerns through normal use in accordance with label directions.

Signal Word: CAUTION

Potential Health Effects

ROUTE(S) OF ENTRY..... : Oral, inhalation, eyes, and dermal

HUMAN EFFECTS AND
SYMPTOMS OF OVEREXPOSURE : none documented

ACUTE EYE CONTACT : Not established. May cause slight irritation.

CHRONIC EYE CONTACT..... : Not established. May cause slight irritation.

ACUTE SKIN CONTACT..... : Not established. May cause slight irritation.

CHRONIC SKIN CONTACT : Not established. May cause slight irritation.

CHRONIC INGESTION : Not established. May cause slight irritation.

ACUTE INHALATION : Not established. May cause slight irritation.

CHRONIC INHALATION..... : Not established. May cause slight irritation.



CARCINOGENICITY

NTP : N/A
IARC : N/A
OSHA : N/A

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE : None noted

4. FIRST AID MEASURES:

FIRST AID FOR EYES : Flush eyes with plenty of water. Get medical attention if irritation persists
FIRST AID FOR SKIN : Wash with soap and water. Get medical attention if irritation persists.
FIRST AID FOR INHALATION : Remove to fresh air. Seek medical attention if irritation persists.
FIRST AID FOR INGESTION : Drink 2-3 glasses of water. Contact physician for further treatment

5. FIRE FIGHTING MEASURES:

NFPA HAZARD CLASSIFICATION : HEALTH HAZARD 1 FIRE HAZARD 0
..... REACTIVITY 0 SPECIAL HAZARD NONE
EXTINGUISHING MEDIA : Use water spray, carbon dioxide, dry chemical or polymeric foam.
UNUSUAL FIRE AND EXPLOSION HAZARDS : None
SPECIAL FIRE FIGHTING PROCEDURES : None

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES : Absorb the liquid and scrub the area with 1-5% bleach solution.
Avoid runoff into storm drains and ditches that lead to waterways.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE (MIN. / MAX.) : -4/50.00 °F -20/10.00 °C
SHELF LIFE : Stable if kept refrigerated
SPECIAL SENSITIVITY : None
HANDLING AND STORAGE PRECAUTIONS : None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EYE PROTECTION REQUIREMENTS : The use of safety goggles is recommended
SKIN PROTECTION REQUIREMENTS : The use of chemical-resistant gloves is recommended
RESPIRATORY / VENTILATION REQUIREMENTS : No special ventilation is required
EXPOSURE LIMITS : N/A



9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM	: Liquid	
COLOR	: Brown	
ODOR	: Earthy	
BOILING POINT RANGE	: 194.00-212.00 °F	95-100 °C
MELT POINT / FREEZE POINT	: 32/-4 °F	0/-20 °C
FLASH POINT	: >200 °F	>100 °C
AUTO IGNITION	: N/A	N/A
UPPER EXPLOSIVE LIMITS (UEL)	: Not determined	
LOWER EXPLOSIVE LIMITS (LEL)	: Not determined	
pH	: 6.5-7.5	
SOLUBILITY IN WATER	: partially soluble	
SPECIFIC GRAVITY	: 1.18	
BULK DENSITY	: N/A	
% VOLATILE BY WEIGHT	: N/A	
VAPOR PRESSURE at 20 °C	: N/A	
VAPOR DENSITY	: N/A	

10. STABILITY AND REACTIVITY:

STABILITY	: Stable
HAZARDOUS POLYMERIZATION	: Will not occur
INCOMPATIBILITIES	: None noted
DECOMPOSITION PRODUCTS	: N/A
CONDITIONS TO AVOID	: None

11. TOXICOLOGICAL INFORMATION:

Avoid breathing spray mist. Avoid contact with skin, eyes and clothing. In case of contact flush eyes or skin with plenty of water. Get medical attention if irritation persists.

12. ECOLOGICAL INFORMATION:

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD	: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
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14. TRANSPORTATION INFORMATION:

D.O.T. PROPER SHIPPING NAME	: N/A
TECHNICAL SHIPPING NAME	: Spodoptera exigua
D.O.T. HAZARD CLASS	: Not regulated
U.N. /N.A. NUMBER	: N/A
PRODUCT RQ (lbs.)	: N/A



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D.O.T. LABEL : N/A
D.O.T. PLACARD : N/A

15. REGULATORY INFORMATION:

OSHA STATUS : N/A

TSCA STATUS : N/A

CERCLA REPORTABLE QUANTITY : N/A

SARA TITLE III:

SECTION 302 EXTREMELY

HAZARDOUS SUBSTANCES : N/A

SECTION 311/312

HAZARD CATEGORIES : N/A

SECTION 313

TOXIC CHEMICALS : N/A

RCRA STATUS : N/A

STATE REGULATORY INFORMATION:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For detail on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME /

CAS NUMBER

CONCENTRATION

STATE CODE

N/A

16. OTHER INFORMATION:

REASON FOR ISSUE : Company Change

APPROVAL DATE : 6/15/01

SUPERSEDES DATE : 12/22/99

MSDS NUMBER : 70051-46

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