

	<b>SAFETY DATA SHEET (SDS)</b> <b>COVERFILM</b>	
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## SECTION 1. PRODUCT AND MANUFACTURER IDENTIFICATION.

### 1.1 Product Identification.

**Trade Name:** COVERFILM  
**Name of the Active Ingredient:** Siloxane copolymer polyalkylene oxide

### 1.2 Identified uses of the substance or mixture

**Usage:** Adjuvant for agricultural use

### 1.3 Supplier or manufacturer data.

**Company:** AGRICULTURA NACIONAL, S.A. DE C.V.  
Address: Av. Periférico Sur No. 3325 Piso 3, Col. San Jerónimo Lídice, Del. Magdalena Contreras C.P. 10200, Mexico City.  
Tel. (55) 5089-1500 or 800-0211-568.

**1.4 Telephone number in case of transportation emergency:** 800 00 214 00  
**(ANIQ-SETIQ) 24 hrs** (55) 5559 1588  
**Poison Attention Center (ATOX):** 800 000 2869

## SECTION 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to NOM-018-STPS-2015.**

Acute inhalation toxicity  
H332 **Category 4**  
Harmful if inhaled

### 2.2 GHS label elements, including precautionary phrases:

**Labeling in accordance with NOM-018-STPS-2015.**

**Hazard-determining components for labeling:**

**Symbol(s).**



**Word of caution: CAUTION**

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#### Danger warnings

H332 Harmful if inhaled

#### Cautionary advice.

P261 Avoid breathing in the dust, fumes/ gas/mist/ mist/ vapors/ spray.  
P271 Use only outdoors or in a well-ventilated area.  
P304+P340 In case of inhalation, move victim outdoors and keep in a position that makes breathing easier.

#### 2.3 Other hazards that do not contribute to the classification.

No hazards identified

### SECTION 3. COMPOSITION/INFORMATION ON THE COMPONENTS

#### 3.1 Mixtures

##### Type of formulation

Liquid solution

##### Active ingredient

Siloxane copolymer polyalkylene oxide

#### Composition of the formulation

NAME	No. CAS	CONC. (%)
Siloxane copolymer polyalkylene oxide	Trade secret	50-<100% equivalent to

\*All concentrations are in percent wt/wt unless the ingredient is a gas. Gas concentrations are given in weight volume.

#### Trade secret information:

\*The specific information corresponding to a chemical identity and/or a percentage of the composition has been withheld as a trade secret.

#### Other information.

No information available.

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## SECTION 4. FIRST AID

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### 4.1 Description of first aid.

<b>General Recommendation</b>	No action shall be taken if it involves any personal risk or does not involve adequate training. Do not give an unconscious victim anything to drink. In case of symptoms, seek medical attention.
<b>Inhalation</b>	In case of inhalation, remove the victim to open air. If not breathing, administer artificial respiration. If short of breath, trained personnel should administer oxygen. Seek medical assistance.
<b>Skin contact</b>	Immediately flush skin with plenty of water for at least 15 minutes and remove contaminated clothing and shoes. If symptoms persist, seek medical help. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. If possible, remove contact lenses. If symptoms persist, seek medical advice.
<b>Ingestion</b>	DO NOT induce vomiting. Do not give an unconscious victim anything to drink. Get medical attention.

### 4.2 Main acute and chronic symptoms and effects

<b>Signs and symptoms</b>	No data available
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## SECTION 5. FIRE SAFETY MEASURES

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### 5.1 Fire Extinction Methods

<b>Overall Fire Hazards</b>	No data available
<b>Appropriate extinguishing methods</b>	All standard extinguishing agents are suitable
<b>Unsuitable extinguishing media</b>	Do not use water jets, as this will spread the fire.

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**Specific hazards arising from the chemical**

In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to combustion products may result in respiratory tract irritation. Measurements at temperatures higher than 150°C in the presence of air (oxygen) have shown that small amounts of formaldehyde are formed by oxidative degradation.

**5.2 Special protective equipment and precautionary measures for firefighters.**

**Special fire-fighting measures**      Use water mist to keep containers exposed to fire cool.

**Special protective equipment to be worn by fire-fighting personnel**      Firefighters should wear full protective clothing and self-contained breathing apparatus with full NIOSHMSHA facepiece.

**SECTION 6. CONTROL MEASURES IN CASE OF ACCIDENTAL SPILLS OR LEAKS.**

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**6.1 Personal precautions, protective equipment and emergency procedures.**

**Precautions for safe handling**      CAUTION: Contaminated surfaces may become slippery. Avoid contact with skin and eyes. Refer to section 8 of the MSDS for personal protective equipment. Keep out of reach of children.

**6.2 Containment and cleaning methods and materials**

**Cleaning methods**      Dry, scrape or soak in inert material and place in a waste disposal container. Wash foot traffic surfaces with detergent and water to reduce the risk of slipping on them. Wear appropriate protective equipment, as indicated in the corresponding section.

**Environmental Precautions**      Prevent wastewater from reaching sewers, waterways or the ground.

**SECTION 7. HANDLING AND STORAGE**

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**7.1 Safe Handling Precautions**

**Safe handling tips**      Sensitivity to static discharge has not been observed. Do not taste or swallow. Avoid contact with eyes, skin or clothing. Use personal protective equipment as required. Wash hands after use.

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## 7.2 Safe storage conditions, including possible incompatibilities

### Technical requirements for storage rooms and containers

Keep container closed, in a dry, cool and well-ventilated place.  
Open and handle container with care.

### Information for joint storage

Store the product in a cool, dry and well ventilated place.

## SECTION 8. EXPOSURE / INDIVIDUAL PROTECTION CONTROLS

### 8.1 Control parameters

#### Personal Exposure Limit Values

No exposure limits were assigned to any of the components.

#### Appropriate technical controls

Provide an eye wash station and emergency shower. General (mechanical) room ventilation should be sufficient if the product is handled at low temperatures or in an enclosed unit.

### 8.2 Individual protection measures, such as personal protective equipment

#### General information

A general (mechanical) ventilation of the room should be sufficient if the product is handled at low temperatures or in an enclosed unit.

#### Eye protection

Safety glasses with side shields

#### Skin protection

Chemical resistant gloves

#### Respiratory protection

If exposure limits are exceeded or upper respiratory tract irritation occurs, the use of a NIOSH/MSHA approved respirator is recommended. Spare respirators are recommended for emergency or non-routine situations. Respirators must follow OSHA standards (see 29 CFR 1910.134).

#### General protective and hygienic measures

Do not breathe fumes/dust. Do not eat, drink or smoke during use. Use only with adequate ventilation. Wash thoroughly after handling.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Essential physical and chemical properties

#### Appearance

<b>Form/state</b>	Liquid
<b>Form/figure</b>	Liquid
<b>Color</b>	Pale yellow
<b>Smell</b>	Like polyether
<b>Smell threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/ Freezing point:</b>	-50°C fluidity point
<b>Initial boiling point and boiling range:</b>	>150°C/1,013hPa copolymer
<b>Flash point</b>	143°C (ASTM D93)
<b>Evaporation rate</b>	<1 (thiethyl acetate=1)
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower flammability or explosion limits</b>	
<b>Upper flammability limit (UL) Lower</b>	No data available
<b>flammability limit (LII) Upper explosive</b>	No data available
<b>limit (%) Heat of combustion</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor density</b>	<1.33 hPa (20°C)
<b>Density</b>	Heavier than air
<b>Relative density</b>	1.002 g/cm <sup>3</sup> (25°C)
<b>Solutions</b>	No data available
<b>Solubility in water</b>	Dispersible
<b>Solubility (other)</b>	No data available
<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Log Pow</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature SADT</b>	No data available
<b>Viscosity, dynamic</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>VOC</b>	24.5 g/L

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## SECTION 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	No hazardous reaction if used as recommended.
<b>10.2 Chemical stability</b>	Material is stable under normal conditions
<b>10.3 Possibility of hazardous reactions</b>	No dangerous polymerization known
<b>10.4 Conditions to avoid</b>	None known
<b>10.5 Incompatible materials</b>	None known
<b>10.6 Hazardous decomposition products</b>	In case of fire, it releases: carbon oxides, silicon oxides. Carbon monoxide is very toxic when inhaled; carbon dioxide in sufficient concentrations can behave as an asphyxiating gas. Acute overexposure to combustion products may result in respiratory tract irritation. Measurements at temperatures above 150°C in the presence of air (oxygen) have shown that small amounts of formaldehyde are formed by oxidative degradation.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute oral toxicity</b>	DL50 (rat): >200 mg/Kg
<b>Acute inhalation toxicity</b>	CL50(rat)> 11.78 mg/L CL50 (rat) 2 mg/L
<b>Acute dermal toxicity</b>	DL50 (rat) >2000 mg/Kg
<b>Skin irritation</b>	(rabbit 4h) This product is not irritant.
<b>Eye irritation</b>	(rabbit) Does not cause eye irritation or lesions
<b>Skin sensitization</b>	(guinea pig) No sensitization

### Chronic Toxicity/Effects

<b>Symptoms</b>	No symptoms reported
<b>Carcinogenicity</b>	No data available
<b>Mutagenicity</b>	No data available
<b>Other symptoms</b>	Based on the information available, no adverse effects are expected. The information provided is based on available data for the substance, the components of the substance, and similar substances. This product is not mutagenic in three mammalian test systems, the Chinese hamster ovary cell (CHO)/HGPRT gene mutation test, a mouse micronucleus cytogenetic test and an in vitro mammalian cytogenetic test.

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In a repeat study with rats, the product applied to the skin produced a moderate skin irritation which disappeared after the recovery period. No cumulative percutaneous toxicity or organ-specific toxicity has been demonstrated and no effects on the genital systems of male or female animals have been observed.

The results of a 14-day study on the effects of oral administration of the product added to the feed of rats show that repeated ingestion of high doses produces harmful effects on male and female genitalia. Other effects observed during the study are: increased liver weight, altered blood cytology/chemistry and thyroid enlargement (hypertrophy with hyperplasia). After a 28-day recovery period, partial or complete recovery was noted, the results of a repeated 9-day toxicology study to establish the effects of inhalation of the aerosols in the rat indicate a no observable effect concentration of <0.025 mg/L. Symptoms of toxicity include noise, difficulty breathing, ocular opacity, prostration, hypothermia, decreased body weight and food consumption, alterations in clinical pathology, decreased thymus weight and microscopic lesions in the nasal cavity. It is not anticipated that the use of aqueous dilutions of this product may involve such aerosol exposure.

## SECTION 12. ECOTOXICOLOGICAL INFORMATION

### 12.1 Toxicity

#### Toxicity to fish

CL50 - (*Oncorhynchus mykiss*) Rainbow trout - 96h = 2.1 mg/L.  
NOEC (*Oncorhynchus mykiss*) TRainbow trout - 96h= 1 mg/L

#### Toxicity to aquatic invertebrates

No data available

### 12.2 Persistence and degradability

#### Biodegradability

Not persistent

### 12.3 Bio-accumulation potential

#### Bioaccumulation

No data available

### 12.4 Ground mobility

#### Ground mobility

No ground mobility is expected

### 12.5 Other adverse effects

Additional ecological information

No information available

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## SECTION 13. DISPOSAL INFORMATION

<b>General Information</b>	No action shall be taken that involves any personal risk or that does not provide for adequate training. Avoid or minimize waste generation whenever possible. Do not discharge waste into drains, soil or waterways.
<b>Disposal instructions</b>	Disposal must be in accordance with federal, state and local regulations.
<b>Contaminated containers</b>	Dispose of as unused product

Dispose of contents/container in accordance with local regulations. Triple wash the empty container and pour the rinsing water into the tank or container where the application mixture is prepared. Handle the empty container and product residues in accordance with the provisions of the General Law for the Prevention and Integral Management of Waste, its regulations or the management plan for empty pesticide containers, registered with SEMARNAT.

## SECTION 14. TRANSPORTATION INFORMATION

In accordance with NOM-002-SCT/2011

**3082**

<b>14.1 UN Number</b>	3082
<b>14.2 Official Transport Designation of the United Nations</b>	LIQUID SUBSTANCE, POTENTIALLY DANGEROUS TO THE ENVIRONMENT, N.O.S. (Siloxane Polyalkylene Oxide Copolymer)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packaging group</b>	III
<b>14.5 Environmental Hazard Label</b>	Yes

## SECTION 15. REGULATORY INFORMATION (MEXICO)

NOM-010-STPS-2014, Chemical pollutants in the work environment-Recognition, evaluation and control.  
 NOM-018-STPS-2015, Harmonized system for the identification and communication of hazards and risks from hazardous chemicals in the workplace.  
 NOM-232-SSA1-2009, Pesticides: establishing the requirements for the packaging, packing and labeling of technical grade products for agricultural, forestry, livestock, gardening, urban, industrial and domestic use.  
 NOM-002-SCT/2011, List of the most commonly transported hazardous substances and materials.

## SECTION 16. OTHER INFORMATION

**Text of hazard statements referred to in Section 2**  
 H332 Harmful if inhaled

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