

**MONSANTO COMPANY**Safety Data Sheet  
Commercial Product**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION****Product Name** Acceleron™ IC-609 Insecticide Seed Treatment for Corn**EPA Registration No.** 264-789-524**Company**

MONSANTO COMPANY, 800 N. Lindbergh Blvd., St. Louis, MO, 63167

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**Emergency numbers**FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC -  
Day or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands.

For calls originating elsewhere: 703-527-3887 (collect calls accepted).

FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

| <u>Hazardous Component Name</u> | <u>CAS-No.</u> | <u>Average % by Weight</u> |
|---------------------------------|----------------|----------------------------|
| Clothianidin                    | 210880-92-5    | 48.00                      |
| Glycerine                       | 56-81-5        |                            |

**SECTION 3. HAZARDS IDENTIFICATION***NOTE: Please refer to Section 11 for detailed toxicological information.***Emergency Overview**

Caution! Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes and clothing. Toxic to aquatic invertebrates.

**Physical State** liquid suspension**Appearance** white to off-white**Routes of Exposure** Inhalation, Skin Absorption, Eye contact, Ingestion**Immediate Effects****Eye** Avoid contact with eyes.**Skin** Harmful if absorbed through skin. Avoid contact with skin and clothing.**Ingestion** Harmful if swallowed. Do not take internally.**Inhalation** Do not breathe vapours or spray mist.**Chronic or Delayed  
Long-Term**

This product or its components may have target organ effects.

**Potential Environmental Effect** Toxic to aquatic invertebrates.

#### SECTION 4. FIRST AID MEASURES

|                                     |                                                                                                                                                                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>                      | When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.                                                                                                                                                            |
| <b>Eye</b>                          | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.                                                                       |
| <b>Skin</b>                         | Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.                                                                                                               |
| <b>Ingestion</b>                    | Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended. |
| <b>Inhalation</b>                   | Move 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 physician or poison control center immediately.                                                                                      |
| <b>Notes to Physician Treatment</b> | Treat symptomatically. There is no specific antidote.                                                                                                                                                                                                                                         |

#### SECTION 5. FIRE FIGHTING MEASURES

|                                     |                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flash point</b>                  | > 100 °C / > 212 °F                                                                                                                                                                                                                                                                                           |
| <b>Suitable Extinguishing Media</b> | Water spray, Carbon dioxide (CO <sub>2</sub> ), Foam, Dry chemical                                                                                                                                                                                                                                            |
| <b>Fire Fighting Instructions</b>   | Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.<br><br>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                |                                                                                                                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>    | Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.                                                                                                                                                             |
| <b>Methods for cleaning up</b> | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. |

**Additional Advice** Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

## SECTION 7. HANDLING AND STORAGE

**Handling Procedures** Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Storing Procedures** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**Work/Hygienic Procedures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Min/Max Storage Temperatures** Recommended minimum transport/storage temperature: -9 °C / 16 °F  
Recommended maximum transport/storage temperature: 38 °C / 100 °F  
The 30-day storage temperature average must not exceed the recommended maximum.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**General Protection** Follow all label instructions. Train employees in safe use of the product.  
  
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

**Eye/Face Protection** Tightly fitting safety goggles

**Hand protection** Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)

**Body Protection** Wear long-sleeved shirt and long pants and shoes plus socks.

**Respiratory Protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

### Exposure Limits

|              |             |               |        |           |
|--------------|-------------|---------------|--------|-----------|
| Clothianidin | 210880-92-5 | Manufacturer* |        | 2.8 mg/m3 |
| Glycerine    | 56-81-5     | ACGIH         | TWA    | 10 mg/m3  |
|              |             | OSHA Z1       | PEL    | 5 mg/m3   |
|              |             | OSHA Z1       | PEL    | 15 mg/m3  |
|              |             | OSHA Z1A      | TWA    | 5 mg/m3   |
|              |             | OSHA Z1A      | TWA    | 10 mg/m3  |
|              |             | TX ESL        | ST ESL | 50 ug/m3  |
|              |             | TX ESL        | AN ESL | 5 ug/m3   |

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\*Manufacturer suggested limit

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                         |                                 |
|-------------------------|---------------------------------|
| <b>Appearance</b>       | white to off-white              |
| <b>Physical State</b>   | liquid suspension               |
| <b>pH</b>               | 5 - 7 (100 %)                   |
| <b>Density</b>          | 1.25 g/cm <sup>3</sup> at 20 °C |
| <b>Water solubility</b> | miscible                        |
| <b>Viscosity</b>        | 400 - 650 mPa.s                 |

## SECTION 10. STABILITY AND REACTIVITY

|                            |                                              |
|----------------------------|----------------------------------------------|
| <b>Incompatibility</b>     | Oxidizing agents                             |
| <b>Hazardous Reactions</b> | Stable under recommended storage conditions. |

## SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical-grade active ingredient, clothianidin.

|                                   |                                                                                                                                                                                                                                                                         |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute Oral Toxicity</b>        | male rat: LD50: ≤ 2,000 mg/kg<br>female rat: LD50: 2,000 mg/kg                                                                                                                                                                                                          |
| <b>Acute Dermal Toxicity</b>      | male/female combined rat: LD50: > 4,000 mg/kg                                                                                                                                                                                                                           |
| <b>Acute Inhalation Toxicity</b>  | male/female combined rat: LC50: > 2.6 mg/l<br>Exposure time: 4 h<br>Determined in the form of liquid aerosol.<br><br>male/female combined rat: LC50: > 10.4 mg/l<br>Exposure time: 1 h<br>Determined in the form of liquid aerosol.<br>Extrapolated from the 4 hr LC50. |
| <b>Skin Irritation</b>            | rabbit: No skin irritation.                                                                                                                                                                                                                                             |
| <b>Eye Irritation</b>             | rabbit: No eye irritation.                                                                                                                                                                                                                                              |
| <b>Sensitization</b>              | guinea pig: Non-sensitizing.                                                                                                                                                                                                                                            |
| <b>Chronic Toxicity</b>           | Clothianidin caused effects in the liver, kidney and/or ovaries following chronic exposure to high doses in mice, rats and dogs.                                                                                                                                        |
| <b>Assessment Carcinogenicity</b> | Clothianidin was not carcinogenic in lifetime feeding studies in rats and mice.                                                                                                                                                                                         |

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Reproductive &  
Developmental Toxicity**

REPRODUCTION: Clothianidin is not considered a reproductive toxicant at non-maternally toxic dose levels.

DEVELOPMENTAL TOXICITY: Clothianidin was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in rabbits but were considered secondary to maternal toxicity.

**Neurotoxicity**

Clothianidin was not a neurotoxicant in acute, subchronic and developmental neurotoxicity screening studies in rats.

**Mutagenicity**

Clothianidin was not genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

**SECTION 12. ECOLOGICAL INFORMATION****Environmental  
Precautions**

Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not allow to get into surface water, drains and ground water. Apply this product as specified on the label.

**SECTION 13. DISPOSAL CONSIDERATIONS****General Disposal  
Guidance**

Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

**Container Disposal**

Do not re-use empty containers. Triple rinse containers. 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. Follow advice on product label and/or leaflet.

**SECTION 14. TRANSPORT INFORMATION**

TRANSPORTATION CLASSIFICATION:  
Not regulated for Domestic Surface Shipment

FREIGHT CLASSIFICATION:  
Insecticides or Fungicides, N.O.I.; other than poison

**SECTION 15. REGULATORY INFORMATION**

EPA Registration No. 264-789-524

**US Federal Regulations****TSCA list**

Glycerine

56-81-5

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

None.

**US States Regulatory Reporting****CA Prop65**

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

Glycerine

56-81-5

IL, MN, RI

**Canadian Regulations****Canadian Domestic Substance List**

Glycerine

56-81-5

**Environmental****CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1

Flammability - 2

Reactivity - 0

Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Not applicableNot applicable

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This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally

other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.