

SAFETY DATA SHEET



ACCELERON® I-609 INSECTICIDE SEED TREATMENT

Version 8.0 / USA
102000012783

1/13
Revision Date: 01/30/2024
Print Date: 02/01/2024

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name ACCELERON® I-609 INSECTICIDE SEED TREATMENT
Product code (UVP) 06535151, 86296519
SDS Number 102000012783
EPA Registration No. 7969-458-264

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide, Seed treatment
Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer CropScience LP
800 North Lindbergh Blvd.
St. Louis, MO 63167
USA
Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577
Product Information Telephone Number 1-866-99BAYER (1-866-992-2937)

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity(Oral): Category 4
Specific target organ toxicity - single exposure: Category 2

Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Warning

Hazard statements

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Harmful if swallowed.
May cause damage to organs (Nervous system).

Precautionary statements

Avoid release to the environment.
Do not breathe mist or vapours.
Do not eat, drink or smoke when using this product.
Wash skin thoroughly after handling.
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
Rinse mouth.
Collect spillage.
Store locked up.
Dispose of contents/container in accordance with local regulation.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.
No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Clothianidin	210880-92-5	47.5
Glycerine	56-81-5	5.0 – 10.0
Alcohols (C12 - 15 Ln saturated) ethoxylate	68131-39-5	>=0.3 – <1.0

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment. First Aid responders should pay attention to self-protection and use the recommended protective clothing
Inhalation	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.
Skin contact	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.
Eye contact	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.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not give liquids to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not leave victim unattended. Never give anything by mouth to an unconscious person.

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Most important symptoms and effects, both acute and delayed

Symptoms	To date no symptoms are known.
Indication of any immediate medical attention and special treatment needed	
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable	Water spray, Carbon dioxide (CO ₂), Foam, Dry chemical
Unsuitable	High volume water jet

Special hazards arising from the substance or mixture Dangerous gases are evolved in the event of a fire., Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen chloride (HCl), Nitrogen oxides (NO_x), Halogenated compounds, Sulphur oxides

Advice for firefighters

Special protective equipment for firefighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. In the event of fire and/or explosion do not breathe fumes.

Further information Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Contain the spread of the fire-fighting media. Evacuate personnel to safe areas.

Specific hazards from the substance or mixture which can increase the fire

Flash point	> 100 °C / > 212 °F
Auto-ignition temperature	does not ignite
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Do not breathe gas/fumes/vapour/spray. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

Methods and materials for containment and cleaning up

Methods for cleaning up Dike area to prevent runoff. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect in containers for reclamation or disposal. 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. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Do not breathe mist or vapours. Use only in area provided with appropriate exhaust ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Handle and open container in a manner as to prevent spillage. Do not breathe dust, fume, gas, mist, vapours or spray. Avoid formation of aerosol. Avoid contact with skin, eyes and clothing.

Hygiene measures 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.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.
Keep away from direct sunlight. Keep away from heat and sources of ignition. Protect from freezing.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Clothianidin (Inhalable fraction.)	210880-92-5	0.1 mg/m ³ (TWA)	01 2022	ACGIH
Clothianidin	210880-92-5	2.8 mg/m ³ (TWA)		OES BCS*
Glycerine (Respirable fraction.)	56-81-5	5 mg/m ³ (PEL)	02 2006	OSHA Z1
Glycerine (Total dust.)	56-81-5	15 mg/m ³ (PEL)	02 2006	OSHA Z1
Glycerine (Total dust and mist.)	56-81-5	10 mg/m ³ (TWA)	06 2008	TN OEL
Glycerine (Respirable fraction and dust or fume.)	56-81-5	5 mg/m ³ (TWA)	06 2008	TN OEL
Glycerine (Respirable fraction.)	56-81-5	5 mg/m ³ (TWA PEL)	12 2017	US CA OEL
Glycerine (Total dust.)	56-81-5	10 mg/m ³ (TWA PEL)	12 2017	US CA OEL
Glycerine (Total dust.)	56-81-5	15 mg/m ³ (TWA)	09 2016	Z3
Glycerine (Respirable fraction.)	56-81-5	15millions of particles per cubic foot of air (TWA)	09 2016	Z3
Glycerine (Total dust.)	56-81-5	50millions of particles per cubic foot of air (TWA)	09 2016	Z3
Glycerine (Respirable fraction.)	56-81-5	5 mg/m ³ (TWA)	09 2016	Z3

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in

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	accordance with the appropriate regulatory standards and/or industry recommendations. Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.
Hand protection	Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)
Eye protection	Safety glasses with side-shields Safety glasses, in case of increased risk, also a face shield
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks. Use suitable protective clothing, gloves and footwear, selected with regard to use conditions and exposure potential.
General protective measures	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 wash facility and safety shower should be available. Remove contaminated clothing immediately and dispose of safely.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form	suspension
Colour	white to light beige
Odour	characteristic
Odour Threshold	No data available
pH	5.0 - 7.0 (100 %) (23 °C)
Melting point/range	No data available
Boiling Point	No data available
Flash point	> 100 °C / > 212 °F
Flammability	Not applicable
Auto-ignition temperature	does not ignite
Thermal decomposition	No data available
Minimum ignition energy	Not applicable
Self-accelerating decomposition temperature (SADT)	No data available
Upper explosion limit	No data available

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Lower explosion limit	No data available
Vapour pressure	< 0.0000001 hPa (25 °C) The value mentioned relates to the active ingredient.
Evaporation rate	Not applicable
Relative vapour density	Not applicable
Relative density	No data available
Density	ca. 1.25 g/cm ³ (20 °C)
Water solubility	miscible
Partition coefficient: n-octanol/water	Clothianidin: log Pow: 0.9
Viscosity, dynamic	400 - 650 mPa.s (20 °C) 200 - 340 mPa.s (20 °C) Velocity gradient 20 /s 105 - 185 mPa.s (20 °C) Velocity gradient 100 /s
Viscosity, kinematic	No data available
Oxidizing properties	No data available
Explosivity	Not applicable
Other information	Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Strong acids, Strong bases, Strong oxidizing agents
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

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SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Ingestion, Inhalation, Eye contact, Skin contact
Immediate Effects	
Eye	Not expected to produce significant adverse effects when recommended use instructions are followed.
Skin	May be harmful in contact with skin.
Ingestion	Harmful if swallowed.
Inhalation	Harmful if inhaled.

Information on toxicological effects

Acute oral toxicity	LD50 (female Rat) 2,000 mg/kg
Acute inhalation toxicity	LC50 (male/female combined Rat) > 2.6 mg/l Exposure time: 4 h highest concentration tested Determined in the form of liquid aerosol. No mortality.
Acute dermal toxicity	LD50 (male/female combined Rat) > 4,000 mg/kg No mortality.
Skin corrosion/irritation	No skin irritation (Rabbit)
Serious eye damage/eye irritation	No eye irritation (Rabbit)
Respiratory or skin sensitisation	Skin: Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity – single exposure

Clothianidin: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Clothianidin did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

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

Assessment carcinogenicity

Clothianidin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

Clothianidin 210880-92-5 Group A4

NTP

None.

IARC

None.

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Assessment toxicity to reproduction

Clothianidin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Clothianidin is related to parental toxicity.

Assessment developmental toxicity

Clothianidin did not cause developmental toxicity in rats.

Clothianidin caused developmental toxicity in rabbits only at dose levels toxic to the dams. The developmental effects seen with Clothianidin are related to maternal toxicity.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

No further toxicological information is available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish

LC50 (*Oncorhynchus mykiss* (rainbow trout)) > 104.2 mg/l
static test; Exposure time: 96 h

The value mentioned relates to the active ingredient clothianidin.

Toxicity to aquatic invertebrates

EC50 (*Daphnia magna* (Water flea)) 26 mg/l static test; Exposure time: 48 h

The value mentioned relates to the active ingredient clothianidin.

EC50 (*Chironomus riparius* (non-biting midge)) 0.029 mg/l static test; Exposure time: 48 h

The value mentioned relates to the active ingredient clothianidin.

Chronic toxicity to aquatic invertebrates

NOEC (*Daphnia magna* (Water flea)): 0.12 mg/l
Exposure time: 21 d

The value mentioned relates to the active ingredient clothianidin.

EC10 (*Chironomus riparius* (non-biting midge)): 0.0004 mg/l
Exposure time: 28 d

The value mentioned relates to the active ingredient clothianidin.

Toxicity to aquatic plants

EC50 (*Pseudokirchneriella subcapitata* (green algae)) > 120 mg/l
Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient clothianidin.

NOEC (*Pseudokirchneriella subcapitata* (green algae)) 15 mg/l
Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient clothianidin.

EC50 (*Lemna gibba* (gibbous duckweed)) > 121 mg/l
semi-static test; Exposure time: 14 d

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	The value mentioned relates to the active ingredient clothianidin.
	NOEC (Lemna gibba (gibbous duckweed)) 59 mg/l semi-static test; Exposure time: 14 d
	The value mentioned relates to the active ingredient clothianidin.
Biodegradability	Clothianidin: Not rapidly biodegradable
Koc	Clothianidin: Koc: 84 - 345
Bioaccumulation	Clothianidin: Does not bioaccumulate.
Mobility in soil	Clothianidin: Moderately mobile in soils
Results of PBT and vPvB assessment	
PBT and vPvB assessment	Clothianidin: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
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

Waste treatment methods

Product	Dispose in accordance with all local, state/provincial and federal regulations.
Contaminated packaging	Triple rinse containers. Consult state and local regulations regarding the proper disposal of container. Follow advice on product label and/or leaflet. Puncture container to avoid re-use.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR	Not dangerous goods / not hazardous material
IMDG	
UN number	3082
Class	9
Packaging group	III
Marine pollutant	YES

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Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(CLOTHIANIDIN SOLUTION)

IATA

UN number **3082**
Class 9
Packaging group III
Environm. Hazardous Mark YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(CLOTHIANIDIN SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 7969-458-264

US Federal Regulations

TSCA list

Water 7732-18-5
Glycerine 56-81-5
1,2-Propanediol 57-55-6

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

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

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	MN, RI
1,2-Propanediol	57-55-6	MN, RI

Environmental

CERCLA

None.

Clean Water Section 307(a)(1)

None.

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Safe Drinking Water Act Maximum Contaminant Levels

None.

EPA/FIFRA Information:

This chemical is a pesticide product regulated by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word:	Caution!
Hazard statements:	Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Fourth Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

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

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Reason for Revision: The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 11: Toxicological Information. Section 12. Ecological information. Section 15: Regulatory information. Section 16: Other Information. Reviewed and updated for general editorial purposes.

Revision Date: 01/30/2024

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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