

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Zoecon Altosid Pro-G Insect Growth Regulator
 Synonyms : 100532290, 100536250, 38860, EPA Reg. No.: 2724-451, RF9010, Zoecon 9010 GR, Zoecon Altosid XR-G

1.2. Recommended use and restrictions on use

Recommended use : Insect growth regulator.
 Restrictions on use : Keep out of reach of children. Avoid all contact with skin, eyes, or clothing. Avoid breathing dust.

1.3. Supplier

Wellmark International
 1501 E. Woodfield Road, Suite 200W
 Schaumburg, IL 60173 - United States
 www.zoecon.com

1.4. Emergency telephone number

Emergency number : 1-800-248-7763
 1-800-424-9300 - CHEMTREC
 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Carcinogenicity Category 1A : May cause cancer
 Specific target organ toxicity (repeated exposure) Category 1 : Causes damage to organs through prolonged or repeated exposure

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) : Danger
 Hazard statements (GHS-US) : May cause cancer
 Causes damage to organs through prolonged or repeated exposure
 Precautionary statements (GHS-US) : Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash hands, forearms and face thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If exposed or concerned: Get medical advice/attention.
 Get medical advice/attention if you feel unwell.
 Store locked up.
 Dispose of contents/container to in accordance with local/regional/national/international regulations

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : The finished product is not considered carcinogenic because of the product's physical form. The Hazard Statement "May Cause Cancer" is presented because a component of this product contains naturally occurring crystalline silica (quartz) which is classified as carcinogenic to humans if inhaled. Respiratory exposure to silica dust from the finished product is not expected to occur under normal conditions of use due to the manner in which the constituents are bound.

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The crystalline silica in the finished product is unlikely to pose personal exposure via inhalation in light of studies conducted that indicate there is minimal liberation of particulates from the product during extreme handling or transport.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % |
|------------------------------|----------------------|---------|
| (s)-Methoprene Technical | (CAS-No.) 65733-16-6 | 1.5 |
| Silica, crystalline - quartz | (CAS-No.) 14808-60-7 | 90.6 |
| Other ingredients | (CAS-No.) N/A | Balance |

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : IF exposed or concerned: Get medical advice/attention. |
| First-aid measures after inhalation | : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention. |
| First-aid measures after ingestion | : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. |

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause damage to organs.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|--------------------------------|----------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |
| Unsuitable extinguishing media | : Avoid heavy hose streams. |

5.2. Specific hazards arising from the chemical

| | |
|-------------|---|
| Fire hazard | : Material is non-combustible and is not expected to pose a fire or explosion hazard. |
| Reactivity | : The product is non-reactive under normal conditions of use, storage and transport. |

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|---|
| Protective equipment | : Avoid contact with skin, eyes and clothing. |
| Emergency procedures | : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe fume, mist, spray, vapors. |

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Use appropriate PPE. Sweep or scoop spills, dispose of any unusable material in approved landfill.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Provide local exhaust or general room ventilation. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Silica, crystalline - quartz (14808-60-7) | | |
|---|--------------------------------------|---|
| ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ (respirable particulate matter) |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 50 µg/m ³ |
| IDLH | US IDLH (mg/m ³) | 50 mg/m ³ (respirable dust) |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.05 mg/m ³ (respirable dust) |

8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Dark gray to black granules

Color : Dark gray to black

Odor : Mild hydrocarbon

Odor threshold : No data available

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| | |
|---|-------------------------|
| pH | : No data available |
| Melting point | : 1610 °C (2930° F) |
| Freezing point | : Not applicable |
| Boiling point | : 2230 °C (4046° F) |
| Flash point | : Not applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : Not applicable |
| Specific gravity / density | : 2.4 g/cm ³ |
| Bulk density | : 1.6 g/cc 100 lb/cu ft |
| Solubility | : Insoluble |
| Log Pow | : No data available |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : No data available |
| Explosion limits | : Not applicable |
| Explosive properties | : Not explosive |
| Oxidizing properties | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Zoecon Altosid Pro-G Insect Growth Regulator | |
|--|--------------|
| LD50 oral rat | > 4000 mg/kg |
| LD50 dermal rat | > 4000 mg/kg |

| Silica, crystalline - quartz (14808-60-7) | |
|---|----------------------------|
| Listed on IARC (International Agency for Research on Cancer), Listed as carcinogen on NTP (National Toxicology Program) | |
| IARC group | 1 - Carcinogenic to humans |
| National Toxicity Program (NTP) Status | Known Human Carcinogens |
| In OSHA Hazard Communication Carcinogen list? | Yes |

| GHS-US Properties | Classification |
|-------------------------------|----------------|
| Acute toxicity | Not classified |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Not classified |

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| | |
|--|---|
| Respiratory or skin sensitization | Not classified |
| Germ cells mutagen | Not classified |
| Carcinogenicity | May cause cancer. |
| Reproductive toxicity | Not classified |
| Specific target organ toxicant (single exposure) | Not classified |
| Specific target organ toxicant (repeated exposure) | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Not classified |

Potential health effects

Inhalation

- Acute : Exposure to respirable crystalline silica is not expected during the normal use of this product. However, acute silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss.
- Chronic : Exposure to respirable crystalline silica is not expected during normal use of this product. However, prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis).

Skin

- Acute : Essentially non-irritating.

Eye

- Acute : Essentially non-irritating.

- Mutagenicity** : (s)-Methoprene has been tested and found negative for mutagenicity potential.

- Carcinogenicity** : (s)-Methoprene is not classified as carcinogen by NTP, IARC and OSHA, Exposure to respirable crystalline silica dust from the finished product is not expected to occur due to the manner in which the constituents are bound, thus the finished product is not considered carcinogenic under conditions of normal use.

- Reproductive Effects** : (s)-Methoprene is not a reproductive toxin and does not cause birth defects.

SECTION 12: Ecological information

12.1. Toxicity

| (s)-Methoprene Technical (65733-16-6) | |
|---------------------------------------|--|
| LC50 Acute fish 1 | 0.76 mg/l (Exposure time: 96h - Rainbow trout) |
| LC50 Acute fish 2 | > 0.37 mg/l (Exposure time: 96h - Blue gill) |
| LC50 Acute crustacea 1 | 0.11 mg/l (Exposure time: 96h - Mysid shrimp) |
| LC50 Acute crustacea 2 | 0.36 mg/l (Exposure time: 48h - Daphnia magna) |
| NOEC Chronic fish 1 | 0.048 mg/l (Fathead minnow) |
| NOEC Chronic crustacea 1 | 0.014 mg/l (Mysid shrimp) |

12.2. Persistence and degradability

| (s)-Methoprene Technical (65733-16-6) | |
|---------------------------------------|--|
| Persistence and degradability | (s)-Methoprene degrades rapidly in sunlight, both in water and on inert surfaces. The pesticide also is metabolized rapidly in soil and does not leach. Thus, it should not persist in soil or contaminate ground water. |

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

| (s)-Methoprene Technical (65733-16-6) | |
|---------------------------------------|---|
| Mobility in soil | Rapidly metabolized in soil under both aerobic and anaerobic conditions (half-life 10-14 days). |

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

| | UN number | Proper Shipping Name | Transport hazard class(es) | Packing group | Environmental hazards |
|-------------|---------------|----------------------|----------------------------|---------------|-----------------------|
| DOT | Not regulated | Not regulated | Not regulated | Not regulated | Not applicable |
| IMDG | Not regulated | Not regulated | Not regulated | Not regulated | Not applicable |
| IATA | Not regulated | Not regulated | Not regulated | Not regulated | Not applicable |

SECTION 15: Regulatory information

15.1. US Federal regulations

Silica, crystalline - quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

FIFRA Labelling

EPA Registration Number : 2724-451

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

| | |
|--|---|
| FIFRA Signal word | Caution |
| FIFRA Precautionary Statement | KEEP OUT OF REACH OF CHILDREN. |
| FIFRA Hazards to Humans and Domestic Animals | Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes or skin. Due to the size and abrasiveness of the granule, use protective eyewear and clothing to minimize exposure during loading and handling. Wash thoroughly with soap and water after handling. |
| FIFRA First Aid | IF IN EYES: 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. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. |
| FIFRA Environmental Hazards | Do not contaminate water when disposing of residue or equipment wash waters. |

15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 07 July 2015
Revision date : 22 May 2018
Supersedes : 10 January 2018

Indication of changes:

Revised Sec. 1 - added material number(s).

SDS US (GHS HazCom 2012) - CGP

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