

MATERIAL SAFETY DATA SHEET

AQUAPRENE™ GRANULES

Date Issued: July 19, 2006
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1. CHEMICAL PRODUCT INFORMATION

Product Name: AQUAPRENE™ GRANULES
Common Name: (S)-Methoprene
Chemical Name: Isopropyl (2E,4E,7S)-11-methoxy-3,7,11 trimethyl-2,4-dodecadienoate
Chemical Family: Terpenoid
Chemical Formula: C₁₉H₃₄O₃
EPA Registration Number: 75318-08

2. COMPOSITION / INFORMATION on INGREDIENTS

<u>Component:</u>	<u>C.A.S. Number:</u>	<u>Percentage:</u>
(S)-Methoprene	65733-16-6	0.3%
Other Ingredients (trade secret and non-hazardous)		99.7%
Silica, Crystalline-Quartz	140808-60-7	

3. HAZARDS INFORMATION

PRECAUTIONARY STATEMENT

Caution: Keep out of reach of children. Avoid contact with skin or eyes. May cause moderate eye irritation. In case of contact, immediately flush eyes with plenty of water. Wash thoroughly with soap and water after handling. Get medical attention if irritation persists.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

No adverse reactions have resulted from normal human exposure during research and testing.

PRIMARY ROUTE OF ENTRY: Skin, Eyes and Accidental Ingestion

ACUTE TOXICITY (based on (S)-Methoprene)

Oral: LD₅₀ (rat): >34,000 mg/kg

Dermal: Dermal LD₅₀: (rabbit) >2000 mg/kg

Inhalation: LD₅₀ (rat): 5.19 mg/L air (4 hr. study)

OTHER TOXICOLOGICAL INFORMATION (based on (S)-Methoprene)

Skin Irritation: Non-irritating (rabbit)

Eye Irritation: Practically non-irritating (rabbit)

Sensitizer: Not a sensitizer (guinea pig)

4. FIRST AID MEASURES

Eyes: Hold eyelids open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, and then continue rinsing eyes.

Skin: Remove contaminated clothing and wash affected area with soap and water. See a physician if symptoms persist.

Ingestion: Drink 1-2 glasses of water and try to induce vomiting. Seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Not likely due to product form. Remove victim to fresh air. See a physician if cough or other respiratory symptoms develop.

Note to Physician: Treat symptomatically

5. FIRE FIGHTING MEASURES

NFPA Rating: **Health: 0 Fire: 0 Reactivity: 0**

Flammability Class: N/A

Flash Point: Does not flash

Explosive Limits (% of Volume): Unknown

Extinguishing Media: Water, foam, CO₂

Special Protective Equipment: Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire Fighting Procedures: Normal procedures. Do not allow fight fighting water to escape into waterways or sewers.

Products of Combustion: None known

Unusual Fire/Explosion Hazards: None known

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Sweep up material and place in suitable disposal container. All clean up and disposal should be carried out in accordance with federal, state and local regulations. If required, state and local authorities should be notified.

Absorbents: None necessary due to product form.

Incompatibles: None known

For Additional Information: See Section 15. REGULATORY INFORMATION

7. HANDLING and STORAGE

Handling: Avoid contact with skin or eyes. Avoid breathing dust. Wash thoroughly with soap and water after handling.

Storage: Store in a cool dry place away from other pesticides, food and feed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Silica, Amorphous Precipitated = 6 mg/m³ (OSHA PEL) and 10 mg/m³ (ACGIH TLV)

Ventilation: Use with adequate ventilation.

Personal Protection Equipment: Due to the size and abrasiveness of the granule, use protective eyewear and clothing to minimize exposure during loading and handling.

9. PHYSICAL and CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Dark gray to black granules
Odor	Slight hydrocarbon odor
Boiling Point:	N/A
Melting Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Specific Gravity:	N/A
Bulk Density:	98.6 lbs/ft ³
Solubility:	< 1 ppm
Evaporation Rate:	N/A
pH:	N/A

10. STABILITY and REACTIVITY

Stability:	Stable
Reactivity:	Non-reactive
Incompatibility w/Other Materials:	None known
Decomposition Products:	None known
Hazardous Polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION

Chronic Toxicity:	Methoprene is not considered an oncogenic compound. The NOEL for non-carcinogenic effects in an 18 month mouse study was 250 ppm.
Acute Toxicity:	See Section 3. Hazards Information
Teratogenicity:	Methoprene is not a teratogenic compound. The NOEL for maternal and embryo toxicity in rabbits was 200 mg/day. The NOEL for reproductive effects in rats was 500 ppm.
Mutagenicity:	Methoprene is not a mutagenic compound
Carcinogen:	[Silica Crystalline Quartz (Sand)] The process by which silica dust in the sand is agglomerated and coagulated by the binder to form an essentially dust-free granule. The granule is glazed with a coating that effectively seals the sand, and any concomitant silica, within the granule. Any dust that results from abrasion during handling will consist of binder and charcoal. Exposure to silica dust from the finished product is not expected to occur. Finished product not considered carcinogenic.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE	(based on RS-Methoprene)
Hydrolysis:	T1/2 >4 weeks
Photolysis:	T1/2 <10 hours
Soil half life:	~ 10 days

Water solubility: < 2 ppm

12. ECOLOGICAL INFORMATION - Continued

ECOTOXICITY (based on (S)-Methoprene)
Acute Toxicity Fish: (rainbow trout): 96-hour LC₅₀ 31.5 ppm.; 96-hour NOEC = 316 ppb
Aquatic Invertebrates: (daphnia): 24-hour EC₅₀ = 129 ppb.; 48-hour NOEC = 43.1 ppb
Avian Toxicity: (northern bobwhite): Dietary LC₅₀ = >62 ppm. NOEC = 62 ppm.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal. **Pesticide Disposal:** Wastes resulting from the use of the product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Completely empty product into application equipment. Then dispose of empty container in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT49CFR Description: Not regulated as hazardous by U.S. D.O.T.
Freight Classification: Insecticides, NOI - NMFC 102120
UN/NA identification number: N/A
IMO classification: N/A
IATA classification: N/A

15. REGULATORY INFORMATION

CERCLA (Superfund): Not regulated
RCRA: Not regulated as hazardous
SARA 311/312 Hazard Categories
Immediate Health: Yes (irritant)
Delayed Health: No
Fire: No
Sudden Pressure: No
Reactivity: No

16. OTHER INFORMATION

Disclaimer

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond our control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume full responsibility for loss, injury and expense arising out of product's improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage use or disposal of this product that may not be covered in this MSDS. The user is responsible for full compliance.