Date Issued: October 2011
Supersedes: New

MATERIAL SAFETY DATA SHEET

DIACON® IGR

Manufacturer: Wellmark International

Address: 1501 East Woodfield Road, Suite 200W, Schaumburg, IL 60173

Emergency Phone: 1(800)-248-7763

Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Diacon® IGR

Chemical Name/Synonym: (S)-Methoprene: Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate

Chemical Family: Terpenoid

Formula: C_{19} H_{34} O_3

EPA Registration No.: 2724-427

RF Number: RF-9811 EC

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component (chemical, common name)	CAS Number	Weight	Tolerance
(S)- Methoprene: Isopropyl (2E,4E,7S)-11-Methoxy-3,7,11-trimethyl-2,4-dodecadienoate	65733-16-6	33.6%	Not established
Other ingredients: (nonhazardous and/or trade secret):		66.4%	Not established
Hydrotreated light petroleum distillate	64742-47-8		Not established

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT
KEEP OUT OF REACH OF CHILDREN
HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

PRIMARY ROUTE OF ENTRY **Dermal/Eye:** Yes. **Oral:** No. **Inhalation:** Yes.

ACUTE TOXICITY

Oral: No specific hazard identified

Dermal: Harmful if absorbed though skin

Inhalation: No specific hazard identified

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Moderately irritating.

Eye Irritation: Moderately irritating.

Sensitizer: Not a dermal sensitizer.

4. FIRST AID MEASURES

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, and then continue rinsing.
- Call a poison control center or doctor for treatment advice.

If on skin:
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If swallowed:
- Immediately call a poison control center or doctor.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give ***any*** liquid to the person.
- Do not give anything to an unconscious person.

Note to Physician: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

5. FIRE FIGHTING MEASURES

NFPA Rating: **Health: 0** **Fire: 2** **Reactivity: 0**

Flammability Class: Combustible liquid.

Flash Point: 191°F, 88.3°C.

Explosive Limits (% of Volume): Upper: Unknown; Lower: Unknown.

Extinguishing Media: Foam, CO2, dry chemical, water, fog.

Special Protective Equipment: Wear protective clothing, eye protection, and self-contained breathing apparatus.

Fire Fighting Procedures: Normal procedures. Do not allow product to enter drainage system or waterways.

Combustion Products: Carbon monoxide and carbon dioxide.

Unusual Fire/Explosion Hazards: Explosive hazards are moderate when vapors are exposed to heat or flame.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Cover with inert absorbent. Avoid contact with heat or open flame. Avoid breathing vapors. Provide ventilation and avoid skin contact. Place all material in metal drum that can be effectively sealed. Do not contaminate surface or domestic water supply.

Absorbents: Clay granules, sawdust, dirt or equivalent.

Incompatibles: Oxidizers.

7. HANDLING AND STORAGE

Handling: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of the gloves before removing. Then wash thoroughly and change into clean clothing.

Storage: Do not contaminate water, food, or feed by storage. Store in a cool dry place.

8. EXPOSURE CONTROL/PERSONAL MEASURES

Exposure Limits: Not Applicable.

Ventilation: Use with adequate ventilation.

Personal Protective Equipment: Avoid contact with eyes, skin or clothing. Use good industrial hygiene practices including appropriate protective eyewear and clothing. If ventilation is not adequate, appropriate respiratory protection may be required. End users should refer to product labeling for Personal Protective Equipment requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Amber liquid, aromatic solvent odor.

Boiling Point: Greater than 218°C.

Melting Point: Not applicable.

Vapor Pressure (mm Hg): < 0.1 mm Hg.

Vapor Density (Air = 1): < 5.9.

Specific Gravity: 0.858.

Bulk Density: 7.1 lbs/gal.

Solubility: Forms emulsion in water.

Evaporation Rate: < 0.01 (n-Butyl acetate = 1.0).

pH: 6.69.

10. STABILITY AND REACTIVITY

Stability: Stable.

Reactivity: Non-reactive.

Incompatibility w/ Other Materials: Oxidizers.

Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Acute oral toxicity: LD50 >5,100 mg/kg
Acute dermal toxicity: LD50 >2,100 mg/kg
Acute inhalation: LC50 >2.009 mg/L (4 hr)
Skin irritation: Moderately irritating
Eye irritation: Moderately irritating
Not a dermal sensitizer

CHRONIC TOXICITY [Based on (RS)-Methoprene Technical]

(R,S)-Methoprene is not considered a carcinogen. The NOEL for non-carcinogenic effects in an 18 month mouse study was 250 ppm.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Based on (RS)-Methoprene Technical]

(R,S)-Methoprene is not a teratogenic compound. The NOEL for maternal and embryotoxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm.

MUTAGENICITY [Based on (RS)-Methoprene Technical]

(R,S)-Methoprene is not a mutagen.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Active Ingredient Only]

Hydrolysis: $T_{1/2}$ > 4 weeks

Photolysis: $T_{1/2}$ < 6 hours

Soil half life: ~ 10 days

Water solubility: 0.52 ppm

ECOTOXICITY [Active Ingredient Only]

Acute Toxicity: **fish:** LC_{50} (trout): 760 ppb, (bluegill): > 370 ppb ((S)-Methoprene);
aquatic invertebrates: LC_{50} (Daphnia): 360 ppb ((S)-Methoprene)

13. DISPOSAL CONSIDERATIONS

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

14. TRANSPORT INFORMATION

DOT49CFR Description: Not Applicable.

Freight Classification: Insecticides NOI NMFC 155050 SUB 5 CLASS 65

15. REGULATORY INFORMATION

CERCLA (Superfund): Ninate 401-A (dodecylbenzene sulfonic acid, calcium salt) – RQ = 10 lbs.
Cas#26264-06-2.

RCRA: Not Regulated.

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes (irritation).

Delayed Health: No.

Fire: Yes (combustible liquid).

Sudden Pressure: No.

Reactivity: No.

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.