

REPAR CORPORATION
MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS: REPAR CORPORATION
Silver Spring, MD 20914

EMERGENCY TELEPHONE NUMBERS:
(800) 424-9300 (CHEMTREC, transportation and spills)

PRODUCT NAME : **IMIDA – TEB GARDEN SC**
CHEMICAL NAME : Tebuconazole:
 α -[2-(4-chlorophenyl)ethyl]- α -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol

CHEMICAL FAMILY : Triazole fungicide
PRODUCT CODE : EPA Reg. No. 69361-19

SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Imidacloprid Technical	138261-41-3	0.1380	0.1680
Tebuconazole	107534-96-3	0.7430	0.9080

SECTION 3 – HAZARDS IDENTIFICATION

Note: Please refer to Section 11 for detailed toxicological information

Emergency Overview Caution! Hazards to humans and domestic animals. Causes moderate eye irritation. This product is highly toxic to aquatic invertebrates.

Physical State Low viscosity liquid

Route of Exposure Ingestion, eye and skin contact.

Immediate Effects

General Do not allow children and pets to enter the treated area until it has dried.

Eye Avoid contact with eyes or clothing. Eye irritation is slight or negligible.

Skin Avoid contact with skin.

SECTION 4 – FIRST AID MEASURES

Eye 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 poison control center or doctor for treatment advice.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point > 93.3°C/>199.9 °F
Method: Setafash Closed Cup

Suitable Extinguishing Media	Dry chemical, Foam
Fire Fighting Instructions	Keep out of smoke. Contain runoff.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General and Disposal	Use proper protective equipment to minimize personal exposure (see Section 8). Absorb with vermiculite or other inert absorbent. Collect and contain contaminated absorbent and dike material for disposal.
Land Spill or Leaks	Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

SECTION 7 - HANDLING AND STORAGE

Handling Procedures	Read label carefully before use. Use the recommended equipment when handling this product (see Section 8).
Storing Procedures	Store in original container in a secured, dry storage area. Store in cool place. Store in an area that is out of reach of children and animals, away from the home or garden. Keep from freezing.
Work/Hygienic Procedures	Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye/Face Protection	Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles.
Body Protection	Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride. Wear long-sleeved shirt and long pants and shoes plus socks.
General Protection	Follow all label instructions.
Exposure Limits	None Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Low viscosity liquid
pH	7.0 – 8.0
Density	1.36 – 1.38 g/cm ³ at 20 ^o C
Minimum Explosion Conc. (MEC)	No thermal or impact explosive material

Viscosity	400 – 1,000 mPa.s 25 ^o C
Other Information	Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability Do not freeze.
Keep in a dry place.

Hazardous Polymerization (Conditions to avoid) Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Oral Toxicity Male and Female Rat: LD50: > 5,000 mg/kg

Acute Dermal Toxicity Male and Female Rat: LD50: > 5,000 mg/kg

Acute Inhalation Toxicity Male and Female Rat: LC50: 4-hr exposure to liquid aerosol: >2.76 mg/l
Maximum attainable concentration.
No deaths

Male and Female Rat: 1-hr exposure to liquid aerosol (extrapolated from 4-hr LC50): > 11 mg/l

Skin Rabbit: Mild irritant with all irritation clearing within 72 hours post-treatment.

Eye Irritation Rabbit: Moderate irritation to the iris and/or conjunctiva with all irritation clearing within 48 hours post-treatment.

Sensitization Guinea pig: Not a dermal sensitizer.

Sub-Chronic Toxicity In a 3 week dermal toxicity study, rabbits treated with imidacloprid and tebuconazole showed no local or systemic effects at levels up to and including 1000 mg/kg, the limit dose.
In a 4 week inhalation study, rats exposed to high concentrations of imidacloprid exhibited decreased body weight gains and changes in clinical chemistries and organ weights.
In a 3 week inhalation study, rats exposed to tebuconazole exhibited liver enzyme effects at the highest concentration tested (155.8 mg/m³).

Chronic Toxicity In chronic dietary studies in rats and dogs treated with tebuconazole, effects on the liver, spleen, adrenals and/or eyes occurred at high doses.

In chronic dietary studies in rats and dogs exposed to imidacloprid, slight effects on the thyroids and/or liver were observed at high doses.

Assessment Carcinogenicity

Tebuconazole gave no evidence of a carcinogenic potential in an oncogenicity study in rats, however, in a study using mice there was an increased incidence of hepatocellular neoplasms at a dose level approximately three-fold greater than the maximum tolerated dose (MTD).

In oncogenicity studies in rats and mice, imidacloprid was not carcinogenic in either species.

ACGIH
None
NTP
None
IARC
None
OSHA
None

**Reproductive &
Developmental Toxicity**

In a two generation study in rats treated with tebuconazole, smaller litters and decreased pup body weights were observed in conjunction with maternal toxicity at the highest concentration tested (1000 ppm).

In a two generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.

Tebuconazole produced teratogenic effects in conjunction with maternal toxicity in mice and rabbits via oral and/or dermal exposure. When tested in the rat, developmental effects were observed in conjunction with maternal toxicity via oral exposure. Teratogenic effects were not observed in the rat following either route of exposure.

In developmental toxicity studies in rats and rabbits, there was no evidence of an embryotoxic or teratogenic potential for imidacloprid. In both species, slight developmental effects were observed only at high doses and in conjunction with maternal toxicity.

Neurotoxicity

In an acute oral neurotoxicity screening study in rats, tebuconazole produced transient neurobehavioral effects without correlating morphological changes in neural tissues.

In a subchronic dietary neurotoxicity screening study in rats, tebuconazole did not produce any neurobehavioral symptoms or any microscopic lesions in neural tissues or skeletal muscle. In a one-generation developmental neurotoxicity study in rats, dietary concentrations of tebuconazole administered to the dams during gestation and lactation did not cause any specific neurobehavioral effects in the offspring. Clinical signs of toxicity, as well as, developmental toxicity were observed in the offspring, but only in conjunction with maternal toxicity.

In acute and subchronic neurotoxicity screening studies in rats, imidacloprid produced slight neurobehavioral effects in each study at the highest dose tested. There were no correlating morphological changes in the neural tissues in either study. In a one-generation developmental neurotoxicity screening study in rats, offspring exposed to imidacloprid showed decreased body weights and motor activities. These effects occurred only at the highest dose tested and in conjunction with maternal toxicity. There were no correlating morphological changes observed in the neural tissues.

Mutagenicity

Numerous in vitro and in vivo mutagenicity studies have been conducted on tebuconazole of which were negative.

The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Precautions Do not apply directly to water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment washwater.

SECTION 13 - DISPOSAL CONSIDERATIONS

General Disposal Guidance Do not reuse empty container. Place empty container in trash.

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow any applicable state or local guidelines. Refer to the product label for other disposal instructions. Never place unused product down any indoor or outdoor drain.

RCRA Classification Not established

SECTION 14 – TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:
Not regulated for transportation

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

SECTION 15 – REGULATORY INFORMATION

EPA Registration No. 69361-19

US Federal Regulations

TSCA list

None

TSCA 12b export notification

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

None

Canadian Regulations

Canadian Domestic Substance List

None

Environmental**CERCLA**

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations**EU Classification**

None

European Inventory of Existing Commercial Substances (EINECS)

None

SECTION 16 – OTHER INFORMATION

	Health	Flammability	Reactivity	Others
NFPA	0	1	0	

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