

Material Safety Data Sheet

Product Name: Imidacloprid 70% WG

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

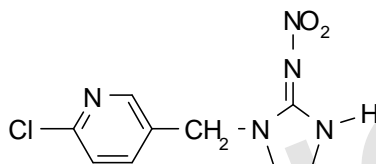
Product Name: Imidacloprid 70% WG

CAS: 138261-41-3

Molecular Weight: 255.7

Chemical Formulation: C₉H₁₀ClN₅O₂

Chemical Structure:



Uses:

Control of sucking insects, including rice-, leaf- and planthoppers, aphids, thrips and whitefly.

Also effective against soil insects, termites and some species of biting insects, such as rice water weevil and Colorado beetle.

Has no effect on nematodes and spider mites.

Used as a seed dressing, as soil treatment and as foliar treatment in different crops, e.g. rice, cotton, cereals, maize, sugar beet, potatoes, vegetables, citrus fruit, pome fruit and stone fruit.

Also used to controls fleas in dogs and cats.

Manufacturer:

Nanjing Essence Fine-Chemical Co., Ltd

Address:

5th Floor, Suoye Road 18#, Nanjing, China

Telephone Number:

+86 25 86465997

+86 25 86466001

Fax Number:

+86 25 86455985

Website:

www.essencechem.com

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average by Weight</u>
Imidacloprid	138261-41-3	70%
Borrespersena		8%

Naphthalene sulfonic acid	6%
Kaolinite	16%

SECTION 3. HAZARDS IDENTIFICATION

Main hazard:	Harmful if swallowed. Harmful to aquatic organisms.
Reproductive hazard:	No effect at 250 mg/Kg diet
Eye effects: eyes:	Not irritating
Health effects-skin:	Not irritating
Carcinogenicity:	None
Mutagenicity:	No indication of mutagenic effects
Neurotoxicity:	No neurotoxic

SECTION 4. FIRST AID MEASURES

Product in eye:	Rinse eyes thoroughly with water. Consult an eye specialist.
Product on skin:	Wash skin immediately with copious amounts of water and soap. Remove soiled or soaked clothing immediately.
Product inhaled:	Call emergency doctor immediately.
Product inhaled:	Bring accident victim out into the fresh air. Call doctor immediately.
Information for physician:	See Chapter 11 for information on toxicology. The active ingredient listed in Chapter 2 belongs to the following chemical group: chloroniconyl. Therapeutic measures: Basic aid, decontamination, symptomatic treatment. Symptoms are similar to those caused by nicotine poisoning.
Antidote:	None

SECTION 5. FIRE FIGHTING MEASURES

Extinguish media:	Extinguish media: sprayed water jet, foam, extinguish powered, CO ₂ , sand. Contain fire fighting water.
Special hazards:	In the event fire, the information of hydrogen chloride , hydrogen cyanide, carbon monoxide, sulphur dioxide and nitrogen oxides must be anticipated.
Protective clothing:	Wear respiratory protection.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	If product is handed while not enclosed, and if skin contact may occur.
-----------------------------	---

Hand protection: protective gloves for chemical.

Eye protection: goggles.

Occupational health: Avoid contact with product. Change badly soiled or soaked clothing. Wash hands before breaks and at end of work.

Environmental precautions:

Prevent entry into drains, Water or soil. Take up spilled product with dust-binding material or suitable vacuum cleaner.

Avoid formation of dust. Fill materials taken up into closable contain. To clean the floor and all objects contaminated by this material, use damp cloth. Also place used cleaning materials into closable receptacles.

See environmental precautions.

SECTION 7. HANDLING AND STORAGE

Suitable material:

Suitable container materials: AL-composite film.

Handing /storage precautions:

Information on fire and explosion prevention: Take precautions to prevent formation of explosive mixtures. Keep away to prevent formation of explosive mixtures.Keep away from sources of ignition-No smoking. Keeping container tightly closed. Prevent from formation of dust deposits and whirling-up of dust. Storage: Observe the rules container in the VCL concept for separate/common storage.

To protect the quality of the product, store in a dry place at temperatures below 60°C . Store so that unauthorised person do not have access. Keep away from food, drink and animal feeding stuffs.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

Keep place of work clean. Avoid contact with product. Keep working cloths separate. Change badly soiled or soaked clothing. Wash hands before breaks and at end of work.

Personal protection-respiration:

Fine dust mast(Class P1)

Personal protection-hand:

Protective gloves for chemicals.

Personal protection-eye:

Goggles.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown solid granules
Odour:	Slight characteristic smell
PH:	7,0-9,0 at 1% in water
Melting point:	From 110°C
Autoflammability:	Spontaneous flammable above 225°C.
Explosive properties:	May cause dust explosion
Combustibility:	BZ3=local burning or glowing with, at the most, only slight spreading(VDI2263)
Oxidizing properties:	None
Vapour pressure:	4×10^{-12} hPa at 20°C (a. i.)
Density:	Bulk volume: fluffed 150ml/100g;jolted 135ml/100g
Solubility-Water:	Dispersible
Solubility-sovent:	A. i. soluble in dichloromethane and 2-prpanol
Wet sieve residue(+200Mesh):	$\leq 2.0\%$
Dry sieve residue(+140Mesh):	$\leq 2.0\%$
Long tube suspension(5min)ml:	0.2max
Wetting time:	50 max
Suspensability:	87%

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid:	None
Incompatible materials:	None
Hazardous decomposition	None
Products:	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 oral, rat:>300-<500mg/kg(Bayer) LD50 dermal, rat:>2000mg/kg(Bayer) LD50 inhalation, rat:>1.62mg/l,dust,4 h exp.(Bayer)
Skin-and eye contact:	Imitation of the skin/rabbit: slightly irritant(Bayer)
Chronic:	Rat(24 months):,males/females:100/300 mg/kg diet Dog(12 months):mailes/females:500 mg/kg diet
Carcinogenicity:	None.
Mutagenicity:	No indication of mutagenic effects.
Reproductive hazards:	No indication.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic toxicity-fish:	LC50:301mg/l(96h) rainbow trout(<i>Oncorhynchus mykiss</i>) (Bayer).
Aquatic toxicity-Daphnia:	EC50:242mg/l(48h)(<i>Daphnia magna</i>)(Bayer)
Aquatic toxicity-Algae:	Growth rate: EC50:>1000mg/l(72h);Green algae (<i>Desmodesmus subspicatus</i>) (Bayer)
Biodegradability:	In water: half life of 4 h.
Bio-accumulation:	None
Mobility:	Immobile.
German wvk:	Crop protection chemicals must be strictly prevented from reaching watercourse.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods:	In case where larger amounts of the product have become unusable, it should be established whether material utilization is possible (if necessary, consult the manufacture/supplies). Small amounts of the product and uncleaned empty packaging should be incinerated in accordance with the local regulations.
Disposal of packaging:	Empty packaging should be packaged and sealed, labelled and transferred to a suitable incinerator in accordance with the local regulations.

SECTION 14. TRANSPORT INFORMATION

Other information: Not dangerous cargo. Keep dry. Keep separate from foodstuffs.

SECTION 15. REGULATORY INFORMATION

EEC hazard Classification:	Symbol: Xn Hazard description: Harmful
Contains:	imidacloprid 700g/kg
Risk phrases:	R22: Harmful if swallowed. R52: Harmful to aquatic organisms. S22: Do not breathe dust.
MAK value (TRGS 900):	General dust tolerance limit(Portion A, penetrating the alveoli; formerly fine dust): 1,5 mg/m ³ A. General dust tolerance limit(Portion E, respirable; formerly total dust):4 mg/m ³ E.

SECTION 16. OTHER INFORMATION

Water dispersible granules

Application: insecticide

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warrant with regard to the products properties.

ESSENCE