SAFETY DATA SHEET

Allectus 30 SC

SDS # : FO001161-GT-A
Revision date: 2019-11-25
Version 1
Format: MX

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Allectus 30 SC

Other means of identification

Product Code(s) FO001161-GT-A

UN/ID no UN3082

Synonyms BIFENTHRIN: (2-methyl[1,1'-biphenyl]-3-yl)methyl (1R,3R)-rel-3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethylcyclopropanecarboxylate (CAS name); 2-methyl-3-phenylbenzyl (1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name)

IMIDACLOPRID: (2E)-1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine (CAS name); (E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine (IUPAC name)

Active Ingredient(s) Bifenthrin, Imidacloprid

Formula $C_{23}H_{22}ClF_3O_2$ (Bifenthrin), $C_9H_{10}ClN_5O_2$ (Imidacloprid)

Chemical Family Pyrethroid, Neonicotinoid

Recommended use of the chemical and restrictions on use

Recommended Use: Insecticide.

Restrictions on Use: Use as recommended by the label.

Details of the supplier of the safety data sheet

Supplier FMC Agroquímica de México, S. de R.L. de C.V.Av. Vallarta No. 6503, Local A1-6, Col. Cd. Granja, 45010 Zapopan, Jalisco, México. Tel.: (33) 3003-4500, Fax: (33) 3003-4501 contactomexico@fmc.com

Emergency telephone number

911
Guatemala - Center of Toxicological Information and Assistance - (502) 2251-3560 / 2232-0735
El Salvador - Rosales National Hospital - (503) 2231-9262
Honduras - Hospital School - (504) 232-6105
Nicaragua - National Center of Toxicology - (505) 2289-4700 ext. 1294 cel. 8755-0983
Costa Rica - National Center of Poisoning - (506) 2223-1028
Panama Center of Research and Information on Medications and Toxicology (507) 523-4948

Section 2: HAZARDS IDENTIFICATION

GHS Classification

General Hazards
This material is considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4

Acute toxicity - Dermal	Category 5
Carcinogenicity	Category 2
Reproductive Toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

GHS Label elements, including precautionary statements

Signal Word Danger

Hazard Statements
H302 - Harmful if swallowed
H313 - May be harmful in contact with skin
H351 - Suspected of causing cancer
H361 - Suspected of damaging fertility or the unborn child
H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P284 - Wear respiratory protection
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release to the environment
Precautionary Statements - Response
P308 + P313 - If exposed or concerned: Get medical advice/attention
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P363 - Wash contaminated clothing before reuse
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P330 - Rinse mouth
P391 - Collect spillage

Precautionary Statements - Storage
P405 - Store locked up
Disposal
P501 - Dispose of contents/container according to label directions

Other Information

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Pyrethroid, Neonicotinoid

Hazardous Components

Chemical name	CAS-No	Weight %
Imidacloprid	138261-41-3	22.4

Bifenthrin	82657-04-3	4.5
Cyclomethicone	556-67-2	1-5
nonylphenol polyethylene glycol ether	9016-45-9	1-5
1,2 benzisothiazolin-3-one	2634-33-5	<1

Synonyms are provided in Section 1.

Section 4: FIRST AID MEASURES

FIRST AID MEASURES

General Advice — Do not induce vomiting or give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Eye Contact — Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin Contact — Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a poison control center or doctor for further treatment advice.

Inhalation — Move person from contaminated area to fresh air. Seek medical attention immediately. If person is not breathing, give artificial respiration, preferably by mouth-to-mouth, if possible.

Ingestion — Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Protection of first-aiders — Avoid contact by using personal protective equipment. See Section 8 for more detail.

Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed — Contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These skin sensations are reversible and usually subside within 12 hours. After oral intake, imidacloprid may cause gastrointestinal discomfort, tremors and difficulty breathing.

Indication of any immediate medical attention and special treatment needed

Indication of immediate medical attention and special treatment needed, if necessary — Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media
Foam, Carbon dioxide (CO_2), Dry chemical, Soft stream or water fog only if necessary. If using water or foam, prevent product and runoff from entering drains, sewers or surface water due to high toxicity to aquatic organisms.

Unsuitable extinguishing media
Avoid heavy hose streams.

Specific extinguishing methods
Evacuate area and fight fire from a safe distance. Very toxic to aquatic life with long lasting effects. Dike to prevent runoff.

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear. Isolate fire area. Evaluate upwind.

Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products
Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride.

Explosive properties

Sensitivity to Mechanical Impact No information available.
Sensitivity to Static Discharge No information available.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid contact with skin, eyes and clothing. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. For personal protection see section 8.
Other	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
For emergency responders	Use personal protection recommended in Section 8.

Environmental Precautions

Environmental Precautions	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. Keep out of waterways.

Methods and material for containment and cleaning up

Methods for Containment	Wear the full Personal Protection Equipment, avoiding inhalation or contact with skin or eyes. Dike to contain spill with inert material which is absorbent and non-combustible (clay, sand or soil). Then soak up with absorbent material inward from the edges.
Methods for cleaning up	If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with strong industrial detergent and much water. Absorb wash liquid onto a suitable absorbent such as hydrated lime, universal binder, attapulgite, bentonite or other absorbent clays and transfer contaminated absorbent to suitable containers. The used containers should be properly closed and labelled.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling

Handling	Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Conditions for safe storage, including any incompatibilities

Storage	Keep in a dry, cool and well-ventilated place. Do not use or store near heat or open flame. Keep/store only in original container. Keep out of reach of children and animals.
Incompatible products	Strong acids, Strong bases, Strong oxidizing agents.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering measures Apply technical measures to comply with the occupational exposure limits (if listed above). When working in confined spaces (tanks, containers, etc.), make sure there is an adequate source of air for breathing and wear the recommended equipment. Ventilate all transport vehicles prior to discharge.

Individual protection measures, such as personal protective equipment

Eye/Face Protection For exposure to mists or sprays, wear safety goggles or face shield for chemical agents.

Skin and Body Protection Use coveralls or long-sleeved uniform and head covering. For large exposures as in case of a spill, use barrier suit covering the entire body, such as a waterproof PVC suit. Leather items, including shoes, belts and watchbands, that have been contaminated should be removed and destroyed. Wash all work clothing before reuse (separately from clothing commonly used).

Hand Protection Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment. Local nuisance dust standards apply.

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Remove and wash contaminated clothing before re-use. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Launder work clothing separately from regular household laundry.

General information If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Suspension
Odor	No information available
Color	No information available
Odor threshold	No information available
pH	5.67 @ 25°C (1% solution)
Melting point/freezing point	No information available
Boiling Point/Range	No information available
Flash point	85-88 °C
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	Miscible with water
Solubility in other solvents	No information available
Surface tension:	No data available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Corrosivity	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No data available

VOC content (%)	No information available
Relative density	1095.4
Bulk density	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity
None under normal use conditions.

Chemical Stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Excessive heat.

Incompatible materials
Strong acids, Strong bases, Strong oxidizing agents.

Hazardous Decomposition Products
Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride.

Section 11: TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral 500 mg/kg (rat)
LD50 Dermal > 4000 mg/kg (rat)
LC50 Inhalation (vapor) > 7.393 mg/L (rat)

Information on likely routes of exposure

Inhalation: convulsions and tremors

Eye Contact: There are no data available for this product.

Skin Contact: May be harmful in contact with skin

Ingestion: Harmful if swallowed Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge After oral intake, imidacloprid may cause gastrointestinal discomfort, tremors and difficulty breathing.

Information on toxicological effects

Symptoms: Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge. Experience to date indicates that contact with bifenthrin may occasionally produce skin sensations such as rashes, numbing, burning or tingling. These sensations are reversible and usually subside within 12 hours.

After oral intake, imidacloprid may cause gastrointestinal discomfort, tremors and difficulty breathing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: Slightly or non-irritating (rabbit)

Serious eye damage/eye irritation: Slightly or non-irritating (rabbit)

Sensitization: Did not cause sensitization on laboratory animals (guinea pig)

Mutagenicity: Bifenthrin, Imidacloprid: Not genotoxic in laboratory studies.

Carcinogenicity: Bifenthrin: Weak treatment-related response for liver adenocarcinomas and benign bladder tumors (lesion) in male mice. Imidacloprid: No evidence of carcinogenicity from animal studies.

Reproductive toxicity: Bifenthrin, Imidacloprid: No toxicity to reproduction in animal studies. Cyclomethicone is suspected of damaging fertility.

STOT - single exposure: Causes damage to organs

STOT - repeated exposure: Causes damage to organs through prolonged or repeated exposure

Developmental toxicity: Bifenthrin, Imidacloprid: Not teratogenic in animal studies

Chronic toxicity: Bifenthrin: Long-term exposure caused neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappeared with continued exposure.

Imidacloprid is rapidly absorbed following oral administration. It is widely distributed in the body. The metabolisation rate is high. Elimination is fast and complete. There is no indication of bioaccumulation.

Target organ effects: Bifenthrin: Central Nervous System (CNS). Imidacloprid: Thyroid, liver.

Neurological effects: Bifenthrin: Causes clinical signs of neurotoxicity (tremors, impaired gait, excessive salivation) following acute or subchronic exposure. Tremors disappeared with continued exposure. Imidacloprid: Slight neurobehavioral effects at highest dose.

Aspiration hazard: No information available

Legend:

Mist	0.30

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Persistence and degradability: Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable. Imidacloprid: Does not readily hydrolyze. Not readily biodegradable.

Bioaccumulation: Bifenthrin: The substance has some potential to bioaccumulate in the environment. Imidacloprid: Not expected to bioaccumulate.

Mobility: Bifenthrin: Immobile. Imidacloprid: Moderately mobile.

Component	Partition coefficient
Cyclomethicone 556-67-2 (1-5)	5.1

Other Adverse Effects: See product label for additional application instructions relating to environmental precautions

Section 13: DISPOSAL CONSIDERATIONS

Disposal of residues / unused products Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

Contaminated containers and Containers must be disposed of in accordance with local regulations. Refer to the product

packages label for container disposal instructions.

Section 14: TRANSPORT INFORMATION

IMDG/IMO:

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Marine Pollutant	Bifenthrin Imidacloprid

DOT Not applicable

Description

MEX:

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s
Hazard class	9
Packing Group	III
Marine Pollutant	Bifenthrin, Imidacloprid

Section 15: REGULATORY INFORMATION

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Imidacloprid 138261-41-3			X		X		X	
Bifenthrin 82657-04-3				X	X	X		
Cyclomethicone 556-67-2	X	X	X	X	X	X	X	X
nonylphenol polyethylene glycol ether 9016-45-9	X	X	X	X	X	X	X	X
1,2 benzisothiazolin-3-one 2634-33-5	X	X	X	X	X	X	X	X

Section 16: OTHER INFORMATION

Prepared By: FMC Corporation

Revision date:	2019-11-25
Revision note	SDS sections updated.

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