



Material Safety Data Sheet

ADMIRE® 240 FLOWABLE SYSTEMIC INSECTICIDE

MSDS Number: 102000006536

MSDS Version 1.3

Revision Date: 11/02/2011

Print Date: 03/22/2017

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	ADMIRE® 240 FLOWABLE SYSTEMIC INSECTICIDE
MSDS Number	102000006536
Product code (UVP)	05955416
PCP Registration No.	24094
Product Use	Insecticide

Bayer CropScience Inc
#200, 160 Quarry Park Blvd, SE
Calgary, Alberta T2C 3G3
Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

<u>Emergency Overview</u>	Caution! Hazard to humans and domestic animals. Keep out of reach of children and animals. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.
Physical State	viscous liquid suspension
Odor	mild
Appearance	off-white
Exposure routes	Inhalation, Skin contact, Skin Absorption, Eye contact
Immediate Effects	
Eye	May cause eye irritation. Eye injury may persist for several days.
Skin	Harmful if absorbed through skin. No skin irritation Non-sensitizing.
Ingestion	Harmful if swallowed.
Inhalation	Harmful if inhaled.
Chronic or Delayed Long-Term	This product does not contain any ingredients designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.
Medical Conditions Aggravated by Exposure	No specific medical conditions are known which may be aggravated by exposure to this product.



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Potential Environmental Effect Highly toxic to bees. Extremely toxic to aquatic and estuarine invertebrates.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid	138261-41-3	21.40
Glycerine	56-81-5	10.00

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
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 physician or poison control center immediately.
Skin	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Notes to physician Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	> 93 °C / > 199 °F
Autoignition temperature	no data available
Lower Flammability Limit	not applicable
Upper Flammability Limit	not applicable



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Fire and Explosion Hazards	In the event of fire the following may be released: Hydrogen chloride (HCl) Nitrogen oxides (NOx)
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Fire Fighting Instructions	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.
Methods for cleaning up	Dike area to prevent runoff. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Contaminated soil may have to be removed and disposed.
Additional advice	Do not allow to enter soil, waterways or waste water canal. Information regarding personal protective equipment, see section 8.

SECTION 7. HANDLING AND STORAGE

Handling procedures	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
Storing Procedures	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Keep away from direct sunlight.
Work/Hygienic Procedures	Remove soiled clothing immediately and clean thoroughly before using again. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash thoroughly and put on clean clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

**Material Safety Data Sheet****ADMIRE® 240 FLOWABLE SYSTEMIC INSECTICIDE**MSDS Number: 102000006536
MSDS Version 1.3**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

General Protection	Follow all label instructions. Eye wash facility and safety shower should be available. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Eye/Face Protection	Safety glasses with side-shields or Splash goggles
Hand protection	Chemical resistant nitrile rubber gloves
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory protection	No personal respiratory protective equipment normally required. When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Exposure Limits

Imidacloprid	138261-41-3	OES BCS*	TWA	0.7 mg/m ³
Glycerine	56-81-5	OEL (QUE)	TWA	10 mg/m ³
		CAD AB OEL	TWA	10 mg/m ³
		CAD BC OEL	TWA	10 mg/m ³
		CAD BC OEL	TWA	3 mg/m ³
		CAD ON OEL	TWAEV	10 mg/m ³
		OEL (QUE)	TWA	10 mg/m ³

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	off-white
Physical State	viscous liquid suspension
Odor	mild
pH	7.5
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	1.12 g/cm ³ at 20 °C



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Evaporation rate	no data available
Boiling Point	no data available
Melting / Freezing Point	-6.7 °C / 19.9 °F
Water solubility	dispersible
Partition coefficient: n-octanol/water	no data available
Viscosity	350 - 600 mPa.s at 25 °C

SECTION 10. STABILITY AND REACTIVITY

Incompatibility	no data available
Hazardous Decomposition Products	Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon dioxide (CO ₂) Carbon monoxide Nitrogen oxides (NO _x)
Chemical Stability	Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertains to the active ingredient, imidacloprid.

Acute oral toxicity	male rat: LD ₅₀ : > 4,870 mg/kg female rat: LD ₅₀ : 4,143 mg/kg
Acute dermal toxicity	male/female combined rabbit: LD ₅₀ : > 2,000 mg/kg
Acute inhalation toxicity	male/female combined rat: LC ₅₀ : > 5.33 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. (actual) male/female combined rat: LC ₅₀ : > 20 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC ₅₀ . (actual)
Skin irritation	rabbit: No skin irritation



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Eye irritation	rabbit: Minimally irritating.
Sensitisation	guinea pig: Non-sensitizing.
Chronic toxicity	Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

Assessment Carcinogenicity

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Reproductive toxicity

Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to general toxicity.

Developmental Toxicity

Imidacloprid did not cause developmental toxicity in rats and rabbits.

Assessment neurotoxicity

Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues.

Mutagenicity

Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

Environmental precautions	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Notify state/provincial or local authorities and Bayer immediately if you observe any adverse environmental effects due to the use of this product. Do not allow to get into surface water, drains and ground water. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.
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SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.
Container Disposal	Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

SECTION 14. TRANSPORT INFORMATION

TDG	Not dangerous goods / not hazardous material
49CFR	Not dangerous goods / not hazardous material
IMDG	
UN-Number	3082
Class	9
Packaging group	III
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)
IATA	
UN-Number	3082
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15. REGULATORY INFORMATION

PCP Registration No. 24094

US Federal Regulations

TSCA list

Glycerine

56-81-5



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US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

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

Glycerine	56-81-5	IL, MN, RI
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Canadian Regulations

Canadian Domestic Substance List

Glycerine	56-81-5
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Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Glycerine	56-81-5
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SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Reviewed and updated for general editorial purposes. The following sections have been revised: Section 9: Physical and Chemical Properties. Section 16: Other Information.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.



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