

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078912669

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078557442 078557459 078557467 078557475 078912666 078912667 078912671 078926846 078926847 078926848

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

078912668

**PRODUCT NAME:****GENERAL LUBE**

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This Material Safety Data Sheet is being provided to your company, for the purpose of providing current health and safety information to your management and employees who work with this product. Please read the data provided and then provide it to those people at your company who have the responsibility to insure compliance with both FEDERAL and STATE Right to Know regulations, and to those employees that request information on this product.

**Federal Regulations:** Parts 29 and 42 Code of Federal Regulations.

**State of Illinois:** Public Act 83-240

### SECTION 1 - PRODUCT IDENTIFICATION

**Manufacturer:** First Priority, Inc.  
1585 Todd Farm Drive  
Elgin, IL 60123

**Telephone Number:** 800-650-4899

**Emergency Number:** Chemtrec  
800-424-9300

**Chemical Family:** Mixture

**Formula:** N/A

**Hazard Classification:** Non-hazardous

**HMIS Rating System:** Health-0/Flammability-0/Reactivity-0

### SECTION 2 - HAZARDOUS COMPONENTS

Ingredient	CAS#	PEL/TLV	Percent
Sodium Carboxymethyl Cellulose	9004-32-4	NE	1-2

The hazard communication standard requires that such mixtures be assumed to present the same health hazard as do components that constitute as least 1% of the mixture (0.1% for carcinogens) although OSHA has noted that the hazards of individual components may be altered by including them in a mixture. Some of the ingredients of this mixture are a trade secret. NE = not established.

### SECTION 3 - PHYSICAL DATA

<b>Boiling Point:</b>	225° F	<b>Specific Gravity:</b>	0.98 (water=1)
<b>Vapor Pressure:</b>	Not available	<b>Percent Volatile:</b>	93%
<b>Vapor Density:</b>	Not available	<b>Evaporation Rate:</b>	<1(ethyl acetate=1) Not determined
<b>Solubility in Water:</b>	Soluble	<b>Appearance &amp; Odor:</b>	Clear gel, slight pleasant odor.

PRODUCT NAME:

GENERAL LUBE

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**SECTION 4 - FIRE & EXPLOSION DATA**

**Flash Point (Method):** NA  
**Estimated Flammable Limits in Air:** Not determined  
**Extinguishing Media:** Water, carbon dioxide or foam, Class A, BC or ABC fire extinguisher.  
**Special Fire Fighting Procedures:** Must wear MSHA/NIOSH approved self-contained breathing apparatus and protective clothing.  
**Unusual Fire & Explosion Hazards:** None

**SECTION 5 - HEALTH HAZARD DATA****Effects Of Overexposure**

**Eyes:** May cause minor irritation. May aggravate pre-existing eye disease.  
**Skin:** Not a skin irritation hazard.  
**Inhalation:** No significant signs or symptoms indicative of any adverse health hazard.  
**Ingestion:** No significant signs or symptoms indicative of any adverse health hazard.

**Emergency First Aid Procedures:**

**Eye Contact:** Flush eyes with large amounts of water for at least 20-30 minutes. Retract eyelids often. Obtain emergency medical attention if pain, blinking, tears or redness persist.  
**Skin Contact:** Wash area thoroughly.  
**Inhalation:** Not expected to present a inhalation hazard under anticipated conditions of normal use..  
**Ingestion:** Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

**SECTION 6 - REACTIVITY DATA**

**Stability:** Stable  
**Conditions to avoid instability:** None known.  
**Incompatibility:** Strong oxidizing agents, strong alkalis and strong mineral acids.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and other decomposition products.  
**Hazardous Polymerization:** Will not occur.

**SECTION 7 - SPILL OR LEAK PROCEDURES****Steps To Be Taken In Case Of Large Amount Of Material Is Released Or Spilled:**

Sweep or scoop up and place in chemical waste containers. Wash area with soap and water. In normal use this product is suitable for entry into an ordinary sanitary sewer system.

**Waste Disposal Methods:**

Dispose in accordance with all local, state and federal regulations. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

**PRODUCT NAME:****GENERAL LUBE**

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**SECTION 8 - SPECIAL PROTECTION**

**Respiratory Protection:** Not normally needed if local exhaust satisfactory.  
**Ventilation:** Provide sufficient ventilation.  
**Protective Gloves:** Not normally needed.  
**Eye Protection:** Use proper protection - safety glasses, as a minimum.  
**Other Protective Equipment:** Not normally needed.

**SECTION 9 - SPECIAL PRECAUTIONS OR COMMENTS**

**Special precautions to be taken**  
**in handling & storing:** Keep closures tight. Avoid exposure to excessive heat.  
**Other precautions:** Use adequate ventilation. Wash thoroughly after handling.

**Initial Date:** October, 1991

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. First Priority, Inc. makes no representations as to the completeness or accuracy thereof. Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will First Priority be responsible for damages of any nature whatsoever resulting from use of or reliance upon said information presented herein. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.



# MATERIAL SAFETY DATA SHEET

## BAYER HEALTHCARE LLC

Animal Health Division  
12707 Shawnee Mission Parkway  
(West 63rd)  
Shawnee, KS 66216-1846

TRANSPORTATION EMERGENCY  
CALL CHEMTREC..... : (800) 424-9300  
INTERNATIONAL ..... : (703) 527-3887

NON-TRANSPORTATION  
BAYER EMERGENCY PHONE : (800) 422-9874  
BAYER INFORMATION PHONE: (800) 633-3796

### Section 1: Product and Company Identification

Product Name: Advantage Multi for Dogs  
Material Number: 8891454

### Section 2: Composition/Information on Ingredients

#### HAZARDOUS INGREDIENTS

<u>Ingredient Name/ CAS Number</u>	<u>Exposure Limits</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Aromatic alcohol CAS# is a trade secret	OSHA (PEL): Not Established ACGIH (TLV): Not Established	60%	100%
Carbonate derivative CAS# is a trade secret	OSHA (PEL): Not Established ACGIH (TLV): Not Established	10%	30%
Imidacloprid 138261-41-3	OSHA (PEL): Not Established ACGIH (TLV): Not Established	7%	13%
Moxidectin 113507-06-5	OSHA (PEL): Not Established ACGIH (TLV): Not Established	1%	5%

### Section 3: Hazards Identification

#### EMERGENCY OVERVIEW

**CAUTION!** **Color:** Light tan to light yellow **Form:** Liquid Pipettes **Odor:** Mild  
May cause respiratory tract irritation. Inhalation may cause nausea or dizziness. May  
cause eye irritation. May be harmful if swallowed.

#### POTENTIAL HEALTH EFFECTS

**Route(s) of Entry:** Eye Contact, Inhalation, Skin Contact

#### HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

##### Inhalation Hazards

**Acute Inhalation Hazards:** May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose. Overexposure to vapor may produce dizziness, drowsiness, or nausea.

##### Skin Hazards

**Acute Skin Hazards:** May cause slight irritation.

##### Eye Hazards

**Acute Eye Hazards:** May cause irritation with symptoms of reddening, tearing and stinging.

##### Ingestion Hazards

**Acute Ingestion Hazards:** Moderately toxic by ingestion.

##### General Effects of Exposure

**Chronic Effects of Exposure:** Prolonged contact with this product may cause defatting of the skin due to the solvent component in the product.

##### Carcinogenic Components:

**NTP:** None

**IARC:** None

**OSHA:** None

##### **Medical Conditions**

**Aggravated by Exposure:**

Eye disorders, Skin disorders, Respiratory tract disorders

### Section 4: First Aid Measures

#### **First Aid for Eye:**

Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops or persists.

#### **First Aid for Skin:**

In case of skin contact, wash affected areas with soap and water.

Contact a physician if irritation develops.

**First Aid for Inhalation:**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Call a physician.

**First Aid for Ingestion:**

Contact a physician or Poison Control Center. Give two glasses of water for dilution. Avoid alcohol. If ingested, do not induce vomiting unless directed to do so by medical personnel. Do not give anything by mouth to an unconscious person.

**Note to Physician:**

In case of human or animal poisoning, please contact the Poison Control Center at (800)938-3578. Please also notify Bayer at (800)422-9874.

### Section 5: Fire Fighting Measures

**Flash Point:**

> 200 °F

**Flammable Limits:**

Upper Explosion Limit  
(UEL %):

Not Established

Lower Explosion Limit  
(LEL %):

Not Established

**Extinguishing Media:**

Suitable:

Water, Carbon Dioxide, Dry Chemical, Foam

**Special Fire Fighting  
Procedures:**

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Do not allow fire fighting water to enter sewer, surface waters, or ground water systems. Equipment and materials used in fighting pesticide fires may become contaminated.

### Section 6: Accidental Release Measures

**Spill or Leak Procedures:**

Evacuate and keep unnecessary people out of spill area. Use appropriate personal protective equipment during clean up. Recover uncontaminated product, if possible. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Wash spill area with soap and water. Soil, absorbents, and other materials that are contaminated by the spilled product should be collected for proper disposal. Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.

### Section 7: Handling and Storage

**Storage Temperature:**

Maximum:

100 °F

**Shelf Life:**

Not Established

**Special Sensitivity:** Not Established

**Handling/Storage Precautions:** Store in a dry place in original or waterproof containers. Store separate from food products. Store in an area designated specifically for pesticides. Avoid contact with eyes. Avoid excessive contact with skin or clothing.

## **Section 8: Exposure Controls/Personal Protection**

### **Personal Protection Equipment**

**Eye Protection Requirements:** Chemical safety goggles or glasses.

**Skin Protection Requirements:** Gloves, long sleeved shirts and pants.

**Ventilation Requirements:** Under normal conditions of use, special ventilation is not required.

**Respirator Requirements:** A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure.

**Additional Protective Measures:** Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions. Launder clothing separately after use. Employees should wash their hands and face before eating, drinking, or using tobacco products.

## **Section 9: Physical and Chemical Properties**

<b>Physical Form:</b>	Liquid
<b>Appearance:</b>	Pipettes
<b>Color:</b>	Light tan to light yellow
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	Not Established
<b>pH:</b>	Not Applicable
<b>Boiling Point:</b>	Not Established
<b>Melting/Freezing Point:</b>	Not Established
<b>Solubility in Water:</b>	Soluble
<b>Specific Gravity:</b>	1.093 - 1.103 @ 20 °C
<b>Bulk Density:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Established
<b>Vapor Density:</b>	Not Established

## **Section 10: Stability and Reactivity**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Substances to Avoid:** Oxidizing agents



<b>Conditions to Avoid:</b>	Avoid extreme heat.
<b>Decomposition Products:</b>	Carbon monoxide, Carbon Dioxide, Oxides of Nitrogen, Hydrogen cyanide, Hydrogen chloride, Propylene Oxide

## Section 11: Toxicological Information

### Toxicity Data for Advantage Multi for Dogs

#### Toxicity Data for Aromatic alcohol

**Acute oral toxicity:** LD50 = 1,230 mg/kg bw (Rat)

**Eye Irritation:** Moderately irritating (Rabbit)

**Skin Irritation:** Moderately irritating 24 h, (Rabbit)

#### Toxicity Data for Carbonate derivative

**Acute oral toxicity:** LD50 = > 5,000 mg/kg bw (Rat)

**Acute dermal toxicity:** LD50 = > 5,000 mg/kg bw (Rabbit)

**Eye Irritation:** Moderately irritating (Rabbit)

**Skin Irritation:** Moderately irritating (Rabbit)

**Sensitization:** Non-sensitizer dermal (Human) Patch Test

**Mutagenicity:** Ames, with/without, negative

#### Toxicity Data for Imidacloprid

**Acute oral toxicity:** LD50 = 424 mg/kg bw (Male Rat)

LD50 = 450 - 475 mg/kg bw (Female Rat)

**Acute dermal toxicity:** LD50 = > 5,000 mg/kg bw (Rat)

**Acute inhalation toxicity:** > 0.07 mg/L, 4 hrs, aerosol (Rat)

> 5.32 mg/L, 4 hrs, dust/particulate (Rat)

**Eye Irritation:** Minimally irritating (Rabbit)

**Skin Irritation:** Non-irritating (Rabbit)

**Sensitization:** Non-sensitizer (Guinea pig)

**Carcinogenicity:** Imidacloprid was investigated for carcinogenicity in chronic feeding studies using mice and rats at maximum levels of 2000 and 1800 ppm, respectively. There was no evidence of a carcinogenic potential observed in either species.

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

**Developmental** No evidence of embryonic or teratogenic potential for the active

<b>Toxicity/Teratogenicity:</b>	ingredient in developmental rats and rabbit toxicity studies. Developmental effects in both sexes were observed only at high doses, in conjunction with material toxicity.
<b>Toxicity to Reproduction/Fertility:</b>	Imidacloprid was not a reproductive toxicant in a multigeneration rat study.
<b>Neurotoxicity:</b>	Rats showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies. No correlating morphol
<b><u>Toxicity Data for Moxidectin</u></b>	
<b>Acute oral toxicity:</b>	LD50 = 106 mg/kg bw (Rat)
<b>Acute dermal toxicity:</b>	LD50 = > 2,000 mg/kg bw (Rat)
<b>Skin Irritation:</b>	Slightly irritating (Rabbit)

## Section 12: Ecological Information

### Ecological Data for Advantage Multi for Dogs

#### Ecological Data for Aromatic alcohol

**Ecological Note:** No data available for this component.

### Ecological Data for Carbonate derivative

**Fish Toxicity:** LC50 = > 1,000 mg/L, 48 hrs. Golden orfe (*Leuciscus idus*)

**Invertebrate Toxicity:** EC50 = > 500 mg/L, 24 hrs. Water flea (*Daphnia magna*)

**Ecological Note:** No data available for this component.

### Ecological Data for Imidacloprid

**Fish Toxicity:** LC50 = 211 mg/L, 96 hrs. Rainbow (Donaldson) Trout (*Oncorhynchus mykiss*)

**Invertebrate Toxicity:** EC50 = 85 mg/L, 48 hrs. Water flea (*Daphnia magna*)

**Plant Toxicity:** Aquatic Plants growth rate = > 10 mg/L, 72 hrs.

### Ecological Data for Moxidectin

**Fish Toxicity:** LC50 = 0.62 ug/L, Bluegill (*Lepomis macrochirus*)

0.16 ug/L, Rainbow trout (*Salmo gairdneri*)

**Invertebrate Toxicity:** EC50 = 0.03 ug/L, Water flea (*Daphnia magna*)

**Plant Toxicity:** EC50 = > 86.9 ug/L, Green algae (*Selenastrum capricornutum*)

## Section 13: Disposal Considerations

**Waste Disposal Method:** Follow container label instructions for disposal of wastes generated during use in compliance with the FDA product label. Do not reuse container.

#### Section 14: Transportation Information

Technical shipping name: Pesticide

**Freight Class**

**Bulk:** Insecticides, N.O.I. (NMFC 102120)

**Package:** Insecticides, N.O.I. (NMFC 102120)

**Domestic Surface Transportation (DOT)**

**Hazard Class or Division:** Non-Regulated

**Marine Transportation (IMO / IMDG)**

**Hazard Class Division** Non-Regulated

**Number:**

**Air Transportation (ICAO / IATA)**

**Hazard Class Division** Non-Regulated

**Number:**

#### Section 15: Regulatory Information

**United States Federal Regulations**

**OSHA Hazcom Standard Rating:** Hazardous

**TSCA Inventory List:** This product is excluded from TSCA regulation by Section 3 (2)(B)(vi) when used for FDA application.

**CERCLA Hazardous Substance:**

Component(s)  
None

Reportable Quantity

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

Component(s)/  
CAS Number  
None

Concentration  
Min. Max.

**SARA Section 311/312 Hazard Categories:** Immediate Health Hazard

**SARA Section 313 Toxic Chemicals:**

Component(s)/  
CAS Number  
None

Reporting  
Threshold

Concentration  
Min. Max.

**RCRA Status:** If discarded in its purchased form, this product would not be a

hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

#### **State Right-to-Know Information**

<b><u>Component(s)/ CAS Number</u></b>	<b><u>State Code</u></b>	<b><u>Concentration</u></b>	
		<b><u>Min.</u></b>	<b><u>Max.</u></b>
Aromatic alcohol	PA-H, NJ-N, MA-H	60%	100%
Carbonate derivative	PA-N, NJ-N	10%	30%
Imidacloprid 138261-41-3	PA-N, NJ-N	7%	13%
Moxidectin 113507-06-5	PA-N, NJ-N	1%	5%

#### **State Code Translation Table**

PA-N = Pennsylvania Non-hazardous  
PA-H = Pennsylvania Hazardous Substance List  
NJ-N = New Jersey Other - includes predominant ingredients  
MA-H = Massachusetts Hazardous Substance List

#### **Section 16: Other Information**

##### **NFPA 704M Rating**

<b>Health</b>	2
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

BAYER HEALTHCARE LLC's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by BAYER HEALTHCARE LLC as a customer service.

Contact: John Sheehan  
Phone: (913) 268-2570  
MSDS Number: 000000001429  
Version Date: 08/27/2008  
MSDS Version: 1.16

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|| Indicates Relevant Change Made.

# SAFETY DATA SHEET

## General Lube

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

### 1. PRODUCT IDENTIFICATION

<b>1.1 TRADE NAME (AS LABELED):</b>	<b>General Lube</b>
<b>SYNONYMS:</b>	Not Available
<b>CAS#:</b>	Mixture
<b>1.2 PRODUCT USE:</b>	Lubricant
<b>CHEMICAL SHIPPING NAME/CLASS:</b>	Non-Regulated
<b>U.N. NUMBER:</b>	N/A
<b>1.3 MANUFACTURER'S NAME:</b>	First Priority, Inc.
<b>ADDRESS:</b>	1590 Todd Farm Drive, Elgin, IL 60123-1287
<b>BUSINESS PHONE:</b>	800-650-4899
<b>EMERGENCY PHONE:</b>	800-424-9300 (Chemtrec U.S. – 24 Hrs)
<b>WEB SITE:</b>	<a href="http://www.prioritycare.com">www.prioritycare.com</a>
<b>DATE OF CURRENT REVISION:</b>	July 1, 2015
<b>DATE OF LAST REVISION:</b>	New

### 2. HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a colorless to slightly yellow lube without any odor.

**Health Hazards:** May cause slight irritation to eyes upon contact.

**Flammability Hazards:** This product is a non-combustible liquid.

**Reactivity Hazards:** None known.

**Environmental Hazards:** The Environmental effects of this product have not been investigated.

US DOT SYMBOLS

Non-Regulated

CANADA (WHMIS) SYMBOLS

Complies with WHMIS 2015

EUROPEAN and (GHS) Hazard Symbols

None

Signal Word: Not Applicable

#### 2.1 GHS LABELING AND CLASSIFICATION:

CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product does not meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 AND the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

**EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC:**

**Index Number:**

**EC# 231-791-2 This substance is not classified in the Annex VI of Directive 67/548/EEC**

**EC# 200-338-0 This substance is not classified in the Annex VI of Directive 67/548/EEC**

**CAS# 9004-32-4 is not listed in ESIS**

Substances not listed either individually or in group entries must be self classified.

**Component(s) Contributing to Classification(s)**

All Ingredients

#### 2.2 LABEL ELEMENTS:

**GHS Hazard Classification(s):**

None Applicable

**Hazard Statement(s):**

None Applicable

**Precautionary Statement(s):**

None Applicable

# SAFETY DATA SHEET

General Lube

## 2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

**SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of overexposure for this product are by contact with eyes and ingestion. The symptoms of overexposure are described below.

### ACUTE:

**INHALATION:** Not anticipated to be a respiratory irritant

**CONTACT WITH SKIN:** Not anticipated to be a skin irritant.

**EYE CONTACT:** Contact may cause slight eye irritation.

**INGESTION:** Under normal conditions of intended use, this material is not expected to be an ingestion hazard.

**CHRONIC:** No data available

**TARGET ORGANS:** Acute: Eyes      Chronic: N/A

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	GHS Hazard Classification
Water	90 – 95%	7732-18-5	231-791-2	Not Classified
Propylene Glycol	3 – 5%	57-55-6	200-338-0	Not Classified
Na CMC	1 – 2%	9004-32-4	Not Listed	Not Classified
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).				

NOTE: This product has been classified in accordance with the hazard criteria of the CFR and the SDS contains all the information required by the CFR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

## 4. FIRST-AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES:

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists or blurred vision occurs.

**SKIN CONTACT:** Wash skin thoroughly with soap and water after handling.

**INHALATION:** Not expected to present inhalation hazard.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** May aggravate pre-existing eye disease.

### 4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Contact with eyes may cause slight irritation.

### 4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

## 5. FIRE-FIGHTING MEASURES

### 5.1 FIRE EXTINGUISHING MATERIALS:

**FIRE EXTINGUISHING MATERIALS:** Use fire extinguishing methods below:

Water Spray: Yes

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Halon: Yes

Other: Any "C" Class

### 5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

This product is a non-combustible liquid.

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

### 5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

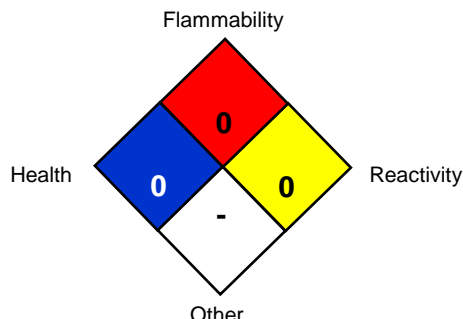
Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire

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## General Lube

area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### NFPA RATING SYSTEM



### HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM	
HEALTH HAZARD (BLUE)	0
FLAMMABILITY HAZARD (RED)	0
PHYSICAL HAZARD (YELLOW)	0
PROTECTIVE EQUIPMENT	
EYES	RESPIRATORY
See Sect 8	See Sect 8
HANDS	BODY
See Sect 8	See Sect 8
For Routine Industrial Use and Handling Applications	

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

### 6.2 ENVIRONMENTAL PRECAUTIONS:

Stop leak. Contain spill if possible and safe to do so.

### 6.3 SPILL AND LEAK RESPONSE:

Stop the flow of material, if this can be done safely. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

## 7. HANDLING and STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Use good hygiene practices. As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices.

### 7.2 STORAGE AND HANDLING PRACTICES:

Store in original container. Keep container closed. Store in a cool, dry location. Avoid exposure to ignition sources and incompatible materials.

### 7.3 SPECIFIC USES:

See section 1.2 for details.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

### 8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Water	7732-18-5	Not Listed	Not Listed
Propylene Glycol	57-55-6	Not Listed	Not Listed
Na CMC	9004-32-4	Not Listed	Not Listed



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## General Lube

### **8.2 EXPOSURE CONTROLS:**

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses or chemical splash goggles are recommended to avoid contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**HAND PROTECTION:** Chemical resistant gloves are recommended to prevent contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

## 9. PHYSICAL and CHEMICAL PROPERTIES

### **9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:**

**APPEARANCE (Physical State) and COLOR:** This product is a colorless to slightly yellow lube without any odor.

**ODOR:** Pleasant odor.

**ODOR THRESHOLD:** Not Available

**pH:** 6 - 7

**MELTING/FREEZING POINT:** Not Available

**BOILING POINT:** Not Available

**FLASH POINT:** Not Available

**EVAPORATION RATE (n-BuAc=1):** Not Available

**FLAMMABILITY (SOLID, GAS):** Not Applicable

**UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS:** Not Available

**VAPOR PRESSURE (mm Hg @ 20°C (68°F):** Not Available

**VAPOR DENSITY:** Not Available

**RELATIVE DENSITY:** Not Available

**DENSITY:** Not Available

**SOLUBILITY IN WATER:** Soluble

**SPECIFIC GRAVITY:** 1.004

**WEIGHT PER GALLON:** 8.4 lbs/gal

**PARTITION COEFFICIENT (n-octanol/water):** Not Available

**AUTO-IGNITION TEMPERATURE:** Not Available

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** 10,000 cps – 50,000 cps

**VOC g/l / Lb/gal:** Not Available

### **9.2 OTHER INFORMATION:**

No additional information available

## 10. STABILITY and REACTIVITY

### **10.1 REACTIVITY:**

This product is not reactive.

### **10.2 STABILITY:**

Stable under conditions of normal storage and use.

# SAFETY DATA SHEET

General Lube

## **10.3 POSSIBILITY OF HAZARDOUS REACTIONS:**

Will not occur.

## **10.4 CONDITIONS TO AVOID:**

None known.

## **10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:**

Strong oxidizing agents, strong alkalis and strong mineral acids.

## **10.6 HAZARDOUS DECOMPOSITION PRODUCTS:**

Carbon monoxide, carbon dioxide, and other decomposition products.

## 11. TOXICOLOGICAL INFORMATION

### **11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:**

#### **TOXICITY DATA:**

No LD<sub>50</sub> Data Available

**SUSPECTED CANCER AGENT:** None of the ingredients within this product are found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore not are considered to be, or suspected to be, cancer-causing agents by these agencies.

**IRRITANCY OF PRODUCT:** This product may be irritating to the eyes.

**SENSITIZATION TO THE PRODUCT:** This product is not a sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No information concerning the effects of this product and its components on the human reproductive system.

**SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Eye contact – may cause irritation.

**SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** None expected.

**ASPIRATION HAZARD:** None

## 12. ECOLOGICAL INFORMATION

### **12.1 TOXICITY:**

No toxicity data available.

### **12.2 PERSISTENCE AND DEGRADABILITY:**

No specific data available on this product.

### **12.3 BIOACCUMULATIVE POTENTIAL:**

No specific data available on this product.

### **12.4 MOBILITY IN SOIL:**

No specific data available on this product.

### **12.5 RESULTS OF PBT AND vPvB ASSESSMENT:**

No specific data available on this product.

### **12.6 OTHER ADVERSE EFFECTS:**

No specific data available on this product.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

### **12.7 WATER ENDANGERMENT CLASS:**

Not water endangering in accordance with EU Guideline 91/155-EWG.

### **12.8 SPECIFIC AVAILABLE COMPONENT INFORMATION:**

No additional data available.

## 13. DISPOSAL CONSIDERATIONS

### **13.1 WASTE TREATMENT METHODS:**

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

### **13.2 EU Waste Code:**

Not determined.

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General Lube

## 14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows:

**14.1 PROPER SHIPPING NAME:** Not Regulated

**14.2 HAZARD CLASS NUMBER and DESCRIPTION:** N/A

**14.3 UN IDENTIFICATION NUMBER:** N/A

**14.4 PACKING GROUP:** N/A

**14.5 DOT LABEL(S) REQUIRED:** N/A

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:** N/A

**RQ QUANTITY:** None

**14.6 MARINE POLLUTANT:** The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

**14.7 SPECIAL PRECAUTIONS FOR USER:**

None

**14.8 INTERNATIONAL TRANSPORTION:**

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

**14.9 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND IBC CODE:**

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

## 15. REGULATORY INFORMATION

**15.1 UNITED STATES REGULATIONS:**

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** Ingredients within this product are not on the Proposition 65 Lists.

**15.2 CANADIAN REGULATIONS:**

**CANADIAN DSL/NDL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

**OTHER CANADIAN REGULATIONS:** Not applicable.

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** Complies with WHMIS 2015.

**15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:**

This product does not meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

See Section 2 for full Details.

**15.4 AUSTRALIAN INFORMATION FOR PRODUCT:** The components of this product are listed on the International Chemical Inventory list.

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**General Lube**

## **15.5 JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**JAPANESE ENCS INVENTORY:** The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

**POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:** No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

## **15.6 INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftlist List of Toxic Substances: Listed

U.S. TSCA: Listed

## **16. OTHER INFORMATION**

**PREPARED BY:** Paul Eigbrett – (**GHS MSDS Compliance PLUS**)

**DATE OF PRINTING:** July 1, 2015

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. First Priority, Inc assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, First Priority, Inc. assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

**END OF SDS SHEET**

## SAFETY DATA SHEET

122000001555

**Advantage multi for Cats or Dogs**

Version 2.0

Revision Date 08/24/2015

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information**

**Product Name:** Advantage multi for Dogs  
**Synonyms:** Advantage  
**SDS Number:** 122000001555

**Use** : veterinary medicine

**Company**

BAYER HEALTHCARE LLC  
Animal Health Division  
12707 Shawnee Mission Parkway  
(West 63rd)  
Shawnee, KS 66216-1846  
USA  
(800) 633-3796

**In case of emergency:** (800) 422-9874  
Chemtrec: (800) 424-9300  
BAYER INFORMATION PHONE: (800) 633-3796  
INTERNATIONAL: (703) 527-3887


**2. HAZARDS IDENTIFICATION****Emergency Overview**

**Colour:** yellow, brownish, clear **Form:** liquid **Odour:** weak, characteristic.

**GHS Classification:**

**Eye irritation** : Category 2  
**Acute toxicity (Oral)** : Category 4  
**Acute toxicity (Inhalation)** : Category 4

**GHS Label element:**

**Hazard pictograms** : 

**Signal word** : **Warning**

**Hazard statements** : **H302 + H332 Harmful if swallowed or if inhaled**

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**H319 Causes serious eye irritation.****Precautionary statements****: Prevention:****P261** Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.**P273** Avoid release to the environment.**P280** Wear protective gloves/ eye protection/ face protection.**Response:****P312** Call a POISON CENTER or doctor/ physician if you feel unwell.**P337 + P313** If eye irritation persists: Get medical advice/ attention.**P391** Collect spillage.**3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous Ingredients:**

Weight percent	Components	CAS-No.
10 - 30%	Carbonate derivative	
60 - 100%	Alcohol derivative	
9.11%	Imidacloprid	138261-41-3

**Other Ingredients**

Weight percent	Components	CAS-No.
0.8645%	Moxidectin	113507-06-5

**4. FIRST AID MEASURES****General advice:** Take off all contaminated clothing immediately.**If inhaled:** Remove to fresh air. Call a physician immediately.**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**If swallowed:** If swallowed, seek medical advice immediately and show this container or label.**Contact Number:** Use the Bayer Emergency Number in Section 1

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**5. FIREFIGHTING MEASURES**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media:** High volume water jet

**Specific hazards during firefighting:** Fire may cause evolution of: Hydrogen cyanide (hydrocyanic acid) Hydrogen chloride gas Nitrogen oxides (NOx) Carbon oxides

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

**Further information:** Prevent fire extinguishing water from contaminating surface water or the ground water system.

---

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Use personal protective equipment. Use adequate ventilation.

**Methods for cleaning up:** Suppress (knock down) gases/vapours/mists with a water spray jet. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in closed containers. Label for proper disposal.

**Additional advice:** No special precautions required.

**Further Accidental Release Notes**      No special precautions required.

---

**7. HANDLING AND STORAGE****Handling:**

Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

**No special protective measures against fire required.**

**Storage:**

Storage temperature: 39 - 77 °F (3.89 - 25 °C)

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Benzyl alcohol (100-51-6)**

US. OARS. WEELs Workplace Environmental Exposure Level Guide  
Time Weighted Average (TWA): 10 ppm, 44.20 mg/m3

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**Respiratory protection:**

Recommended Filter type: Organic vapor with prefilter

None required for consumer use of this product.

**Hand protection:**

Chemically resistant gloves.

None required for consumer use of this product.

**Eye protection:**

Safety glasses

None required for consumer use of this product.

**Other protective measures:**

Wear suitable protective equipment.

Please consult label for end-user requirements.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:	liquid
Colour:	yellow, brownish, clear
Odour:	weak, characteristic
Odour Threshold:	No applicable information is available
Melting point:	No applicable information is available
Boiling point/boiling range:	No applicable information is available
Density:	1.098 g/cm <sup>3</sup> at 68 °F (20 °C)
Bulk density:	No applicable information is available
Vapour pressure:	No applicable information is available
Viscosity, dynamic:	No applicable information is available
Viscosity, kinematic:	No applicable information is available
Flow time:	No applicable information is available
Surface tension:	No applicable information is available
Miscibility with water:	immiscible
Water solubility:	No applicable information is available
pH:	No applicable information is available
Relative density:	No applicable information is available
Partition coefficient:	No applicable information is available
Solubility(ies):	No applicable information is available
Flash point:	> 212 °F (> 100 °C)
Flammability (solid, gas):	No applicable information is available
Ignition temperature:	No applicable information is available
Explosion limits:	No applicable information is available

DIN 51757



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**10. STABILITY AND REACTIVITY**

**Conditions to avoid:** Do not allow product to come in contact with:  
Heat

**Materials to avoid:** Oxidizing agents

**Hazardous reactions:** Exothermic polycondensation, accompanied by setting-free of water, may occur in the presence of acids and dissolved iron, zinc or aluminium.

**Thermal decomposition:**

No data available

**Hazardous decomposition products:**

Hydrogen cyanide (hydrocyanic acid), Hydrogen chloride gas, Nitrogen oxides (NO<sub>x</sub>), Carbon oxides

**Oxidizing properties:**

No statements available.

**Impact sensitivity:**

No data available

---

**11. TOXICOLOGICAL INFORMATION**

**Other information on toxicity:**

Alcohol derivative

Dermal absorption possible

If inhaled: irritations, Shortness of breath, Cough

If swallowed: Vomiting, Nausea, Irritation of mucous membranes in the mouth, throat, gullet and gastro-intestinal tract after swallowing.

Systemic toxicity headaches, Nausea, CNS disorders, Convulsions, Unconsciousness, cessation of breathing

**Acute oral toxicity:**

Acute toxicity estimate (ATE) 1,105 mg/kg

Harmful if swallowed.

Method: Calculation method

Calculated for GHS Classification and Labelling.

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**Acute inhalation toxicity:**

Acute toxicity estimate (ATE) 14.25 mg/l

Harmful if inhaled.

Method: Calculation method

Calculated for GHS Classification and Labelling.

**Acute dermal toxicity:**

Imidacloprid

LD50 Rat: &gt; 5,000 mg/kg

The substance or mixture has no acute dermal toxicity

Moxidectin

LD50 Rabbit: &gt; 2,000 mg/kg

LD50 Rat: &gt; 2,000 mg/kg

May be harmful in contact with skin.

Carbonate derivative

LD50 Rabbit: &gt; 20,000 mg/kg

The substance or mixture has no acute dermal toxicity

Alcohol derivative

LD50 Rabbit: &gt; 2,000 mg/kg

May be harmful in contact with skin.

**Acute toxicity (other routes of administration):**

Moxidectin

LD50 intraperitoneal Rat: 394 mg/kg

LD50 intraperitoneal Mouse: 86 mg/kg

LD50 subcutaneous Rat: &gt; 640 mg/kg

LD50 subcutaneous Mouse: 86 mg/kg

**Skin irritation:**

Imidacloprid

Rabbit

Result: No skin irritation

Moxidectin

Result: Moderate skin irritation

Carbonate derivative

Rabbit

Result: No skin irritation

Method: OECD 404

Alcohol derivative

Rabbit

Result: No skin irritation

Method: OECD 404

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**Eye irritation:**

Imidacloprid

Rabbit

Result: No eye irritation

Moxidectin

Result: Moderate eye irritation

Carbonate derivative

Rabbit

Result: Causes eye irritation.

Method: OECD 405

Alcohol derivative

Rabbit

Result: No eye irritation

Method: OECD 405

**Sensitisation:**

Imidacloprid

Skin sensitization guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: Magnusson and Kligmann maximization test

Carbonate derivative

Result: Does not cause skin sensitisation.

Alcohol derivative

guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: Magnusson and Kligmann maximization test

**Subacute, subchronic and prolonged toxicity:**

Alcohol derivative

NOEL 400 mg/kg, Rat, Exposure time 90-day

**Genotoxicity in vitro:**

Imidacloprid

Ames test

Result: negative

In vitro tests did not show mutagenic effects

Moxidectin

Result: No evidence of a gene mutagenic effect.

Alcohol derivative

Ames test

Result: negative

**Genotoxicity in vivo:**

Imidacloprid

Result: No indication of mutagenic effects., No evidence of a genotoxic effect.

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Carbonate derivative

Result: No indication of mutagenic effects.

Alcohol derivative

Result: No indication of mutagenic effects.

**Carcinogenicity:**

Imidacloprid

Result: Animal testing did not show any carcinogenic effects.

**Reproductive toxicity:**

Imidacloprid

Result: Animal studies have produced no evidence of toxic effects on reproduction.

**Teratogenicity:**

Imidacloprid

Result: Animal studies have produced no evidence of harmful effects on development.

Moxidectin

Suspected of damaging fertility. Suspected of damaging the unborn child.

Alcohol derivative

Result: Did not show teratogenic effects in animal experiments.

**Pharmaceutic effects:**

Imidacloprid

Insecticide

Moxidectin

Anthelmintics Antiparasitic agent

**Carcinogenicity:**

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

**STOT - single exposure:****Components:****100-51-6 :**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure:****Components:****100-51-6 :**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**138261-41-3 :**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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**12. ECOLOGICAL INFORMATION****General advice:**

Do not allow to enter surface waters or groundwater.

**Toxicity to fish:**

Imidacloprid

Acute Fish toxicity: LC50 280 mg/l

Test species: Cyprinus carpio (Carp) Duration of test: 96 h

Acute Fish toxicity: LC50 211 mg/l

Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Acute Fish toxicity: LC50 237 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Moxidectin

Acute Fish toxicity: LC50 16 µg/l

Test species: Oncorhynchus mykiss (rainbow trout)

LC50 62 µg/l

Test species: Lepomis macrochirus (Bluegill)

Carbonate derivative

static test: LC50 ca. 5,300 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Method: DIN 38412

Alcohol derivative

Acute Fish toxicity: LC50 10 mg/l

Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

**Toxicity to daphnia and other aquatic invertebrates:**

Imidacloprid

EC50 0.055 mg/l

Test species: Hyalella azteca Duration of test: 96 h

Moxidectin

EC50 302 ng/l

Test species: Daphnia magna (Water flea)

Carbonate derivative

static test EC50 > 500 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

Alcohol derivative

EC50 55 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 24 h

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**Toxicity to algae:**

Imidacloprid

EC50 &gt; 100 mg/l

tested on: Pseudokirchneriella subcapitata (green algae) Duration of test: 72 h

EC50 &gt; 10 mg/l

tested on: Desmodesmus subspicatus (green algae) Duration of test: 72 h

Moxidectin

EC50 &gt; 869 µg/l

Carbonate derivative

static test &gt; 500 mg/l

tested on: Desmodesmus subspicatus (green algae) Duration of test: 72 h

Method: DIN 38412

Alcohol derivative

IC50 &gt; 100 mg/l

Duration of test: 72 h

**Toxicity to bacteria:**

Imidacloprid

EC50 &gt; 10,000 mg/l

tested on: activated sludge micro-organism

Method: OECD 209

Carbonate derivative

EC20 &gt; 800 mg/l

tested on: activated sludge micro-organism

Duration of test: 0.5 h

Method: ISO 8192

Alcohol derivative

EC50 71.4 mg/l

tested on: Photobacterium phosphoreum

Duration of test: 0.5 h

**Biodegradability:**

Carbonate derivative

rapidly biodegradable

Alcohol derivative

92 - 96 %, 28 d rapidly biodegradable

Method: OECD 301 C

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**Bioaccumulation:**

Imidacloprid

Low potential for bioaccumulation

Carbonate derivative

Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

---

**13. DISPOSAL CONSIDERATIONS**

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

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**14. TRANSPORT INFORMATION**

Land transport (CFR)  
non-regulated

US Sea transport (IMDG)  
non-regulated

US Air transport (ICAO / IATA cargo aircraft only)  
non-regulated

US Air transport (ICAO / IATA passenger and cargo aircraft)  
non-regulated

International IATA

UN Number

3082

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(MOXIDECTIN)

Class

9

Packaging group

III

Dangerous goods labels

9

Environmentally hazardous

yes

International IMDG

UN Number

3082

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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	N.O.S. (MOXIDECTIN)
<b>Class</b>	9
<b>Packaging group</b>	III
<b>IMDG-Labels</b>	9
<b>EmS Number</b>	F-A
<b>Marine pollutant</b>	yes

---

**15. REGULATORY INFORMATION**

**US. Toxic Substances Control Act** This product is excluded from TSCA regulation by Section 3 (2)(B)(vi) when used for FDA application.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

**Components**

None

**SARA Section 311/312 Hazard Categories** Immediate Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

**Components**

None

**US. EPA CERCLA Hazardous Substances (40 CFR 302) Components**

None

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists**

Weight percent	Components	CAS-No.
60 - 100%	Alcohol derivative	

**California Prop. 65**

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**OSHA Hazcom Standard Rating** Hazardous

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**16. OTHER INFORMATION**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.



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**Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.