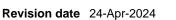
# SAFETY DATA SHEET





**Revision Number** 1

1. Identification		
Product identifier		
Product Name	Bifen 2EC GN Select	
Other means of identification		
Product Code(s)	42750-394-89442	
UN number or ID number	UN3352	
Synonyms	None	
Registration Number(s)	42750-394	
Recommended use of the chemical and restrictions on use		
Recommended use	Insecticide	
Restrictions on use	Follow label instructions	
Details of the supplior of the safety data shoet		

### Details of the supplier of the safety data sheet

### Company Address

PrimeSource, A Division of Albaugh LLC. 1525 NE 36th St Ankeny, IA 50021 USA

### Emergency telephone number

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident:

• Call CHEMTREC Day or Night within USA and Canada: 1-800-424-9300, Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

For Medical Emergencies Only:

• Call Albaugh LLC Day or Night within USA and Canada: 1-888-347-6732

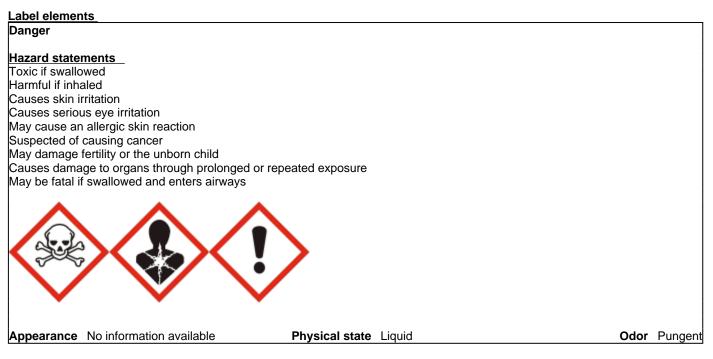
This product is an EPA FIFRA registered pesticide. Some classifications on this SDS are not the same as the FIFRA label. Certain sections of this SDS are superseded by federal law governed by US EPA for a registered pesticide. Please see Section 15. REGULATORY INFORMATION for explanation.

### 2. Hazard(s) identification

### **Classification**

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1B
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration hazard	Category 1

Hazards not otherwise classified (HNOC) Not applicable



### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/clothing and eye/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing must not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove person to fresh air and keep comfortable for breathing IF SWALLOWED: Immediately call a doctor Do NOT induce vomiting Rinse mouth

### Precautionary Statements - Storage

Store locked up

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### Other information

Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

### 3. Composition/information on ingredients

### Substance

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%	Active Ingredient
Solvent Naphtha, Heavy Aromatic	64742-94-5	50.4-53.5	
Bifenthrin	82657-04-3	24.4-25.9	Х
NMP (N-methyl-2-pyrrolidone)	872-50-4	15.2-16.8	
Castor oil, ethoxylated	61791-12-6	0.9-1.1	
Other Ingredients	PROPRIETARY	>5.0	

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

### **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required.	
Inhalation	Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed pulmonary edema may occur.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.	
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical attention.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. See section 8 for more information.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.	

5. Fire-fighting measures	

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the
------------------------------	--

Large Fire	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.	
Explosion data Sensitivity to mechanical impact None.		
Sensitivity to static discharge	None.	

Special protective equipment and<br/>precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout gear.<br/>Use personal protection equipment.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away		
	from and upwind of spill/leak. Avoid breathing vapors or mists.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		

### 7. Handling and storage

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. Avoid breathing vapors or mists.

### Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach<br/>of children. Store locked up. Store away from other materials.

### 8. Exposure controls/personal protection

### Control parameters

Exposure Limits

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

### **Biological occupational exposure limits**

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

Chemical name	ACGIH
NMP (N-methyl-2-pyrrolidone)	100 mg/L - urine (5-Hydroxy-N-methyl-2-pyrrolidone) - end
872-50-4	of shift

### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

## 9. Physical and chemical properties

Information on basic physical and of		
Physical state	Liquid No information available	
Appearance Color		
•••••	Amber	
Odor	Pungent	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	4.5 - 5.5	@ 24 °C
pH (as aqueous solution)		
Melting point / freezing point	No data available	
Initial boiling point and boiling rang	•	
Flash point	93.8 °C / 200.8 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	No data available	
Flammability	No data available	
Flammability Limit in Air		
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	
Relative vapor density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature		
Kinematic viscosity	9.2 mm <sup>2</sup> /s	@ 20 °C
Dynamic viscosity	No data available	

Other information	
Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC content	No information available
Liquid Density	1.0-1.2
Bulk density	No information available
*Listed density is an approximate value and	does not necessarily represent that of a specific batch

### 10. Stability and reactivity

Reactivity	No information available.
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 None known based on information supplied.	

### 11. Toxicological information

### Information on likely routes of exposure

### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. May cause irritation. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes.
Acute toxicity	
Numerical measures of toxicity	
Oral LD50 Dermal LD50 Inhalation LC50	262 mg/kg > 2000 mg/kg 1.86 mg/l

Component Information			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Solvent Naphtha, Heavy Aromatic 64742-94-5	> 5000 mg/kg (Rat)	>2 mL/kg (Rabbit)	> 590 mg/m³ (Rat)4 h
Bifenthrin 82657-04-3	= 47 mg/kg (Rat) = 54.5 mg/kg (Rat)	= 790 mg/kg (Rat)> 2 g/kg ( Rabbit)	= 1010 mg/m³(Rat)4 h
NMP (N-methyl-2-pyrrolidone) 872-50-4	= 3914 mg/kg(Rat)	= 8 g/kg (Rabbit)	> 5.1 mg/L (Rat)4 h

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

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	No information available.

Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Bifenthrin	-	Group 2A	-	-
82657-04-3				

### Legend

### IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
STOT - single exposure	No information available.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.
Other adverse effects	No information available.
Interactive effects	No information available.

### 12. Ecological information

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
			microorganisms	
Solvent Naphtha, Heavy	EC50: =2.5mg/L (72h,	LC50: =19mg/L (96h,	-	EC50: =0.95mg/L (48h,
Aromatic	Skeletonema costatum)	Pimephales promelas)		Daphnia magna)
64742-94-5		LC50: =2.34mg/L (96h,		_
		Oncorhynchus mykiss)		
		LC50: =1740mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =45mg/L (96h,		
		Pimephales promelas)		
		LC50: =41mg/L (96h,		
		Pimephales promelas)		
Bifenthrin	-	LC50: 0.0001 -	-	EC50: 0.00135 -

### 42750-394-89442 - Bifen 2EC GN Select

82657-04-3		0.00019mg/L (96h,		0.00195mg/L (48h,
		Oncorhynchus mykiss)		Daphnia magna)
		LC50: 0.0003 -		
		0.00038mg/L (96h,		
		Lepomis macrochirus)		
NMP	EC50: >500mg/L (72h,	LC50: =832mg/L (96h,	-	EC50: =4897mg/L (48h,
(N-methyl-2-pyrrolidone)	Desmodesmus	Lepomis macrochirus)		Daphnia magna)
872-50-4	subspicatus)	LC50: =1072mg/L (96h,		
		Pimephales promelas)		
		LC50: =1400mg/L (96h,		
		Poecilia reticulata) LC50:		
		=4000mg/L (96h,		
		Leuciscus idus)		
Castor oil, ethoxylated	-	LC50: >45mg/L (96h,	-	-
61791-12-6		Danio rerio)		

#### Persistence and degradability No information available.

**Bioaccumulation** 

There is no data for this product.

### **Component Information**

Chemical name	Partition coefficient
Solvent Naphtha, Heavy Aromatic 64742-94-5	6.1
NMP (N-methyl-2-pyrrolidone) 872-50-4	-0.46

Other adverse effects

No information available.

13. Disposal considerations		
Disposal methods		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	
California Hazardous Waste Status	This product contains one or more substances that are listed with the State of California as a hazardous waste.	

## 14. Transport information

TDG	Not regulated
DOT Notes UN number or ID number Proper shipping name Transport hazard class(es) Packing group Special Provisions	UN3352, Pyrethroid Pesticide, Liquid, Toxic, (Bifenthrin), 6.1, PG III UN3352 Corrosive liquids, flammable, n.o.s. 6.1 III This product qualifies for limited quantity status in packages of less than 5L (1.3 gallons)
IATA	Not regulated
ICAO (air)	Not regulated
IMDG UN number or ID number Transport hazard class(es)	UN3352 6.1

15. Regulatory information					
U.S. EPA Label Information					
EPA Pesticide Registration Number	r 42750-394				
EPA Pesticide Label	WARNING/AVISO. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes moderate eye irritation.				
International Inventories					
TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AIIC	Does not comply Does not comply				
Legend: TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances Autor - Autoralian Inventory of Inductrial Chemicals					

AIIC - Australian Inventory of Industrial Chemicals

### US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %		
Bifenthrin - 82657-04-3	1.0		
NMP (N-methyl-2-pyrrolidone) - 872-50-4	1.0		

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65		
NMP (N-methyl-2-pyrrolidone) - 872-50-4	Developmental		

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Bifenthrin	Х	-	-
82657-04-3			
NMP (N-methyl-2-pyrrolidone)	Х	Х	Х
872-50-4			

16. Other information						
	Health hazards 3 Health hazards 3 * *= Chronic F	Flammability 1 Flammability 1 Health Hazard	Instabi Physic	lity 0 al hazards 0	Special hazards - Personal protection X	
	sure controls/personal ime-weighted average)					
transportation, disposal a	I in this Safety Data Sh ne information given is and release and is not	ion available. eet is correct to th designed only as to be considered a	a guidance for warranty or q	safe handling, uality specifica	use, processing, storage,	

materials or in any process, unless specified in the text.

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Albaugh's knowledge. Albaugh makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container).

This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label. End of Safety Data Sheet