SAFETY DATA SHEET (SDS)	
TITLE:	**IMIDACLOPRID 2.15% W/W GEL**

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Identification on the label / Trade name : AG IMIDACLOPRID 215 GEL

Common Name : Imidacloprid 2.15 % w/w

CAS No. : 138261-41-3

1.2 Relevant identified uses of the substance and uses advised against:

Insecticide

1.3 Details of the Manufacturer / Supplier of the safety data sheet:

Supplier	AGROMEC SARL
	P.O.Box: 462
	Jounieh, Lebanon
Tel	+961 9 226874
E-mail	agromec@agromec-international.com
Webpage	www.agromec-international.com

1.4 Emergency Phone Number (24 hours)

+961 3 980599

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the mixture:

2.1.1 Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008 (CLP).

1272/2008/EU	
Pictograms / Signal word code (s)	**Hazard Statement Code (s)**
GHS07, GHS09, Wng	H301, H400, H410

For full text of H-phrases: see section 2.2.1

67/548/EEC (DSD)		
Classification and Indication of Danger (s)	**R-Phrases**	**S-Phrases**
Xn, N	R: 22-50/53	S: 2-22-57-60-61

For full text of R-phrases and S-phrases: see section 2.2.2

2.2 Label elements

2.2.1 According to 1272/2008/EU REGULATION

Pictograms / Signal word code (s)

Wng

GSH07

GSH09

Hazard Statement code (s)

H301	:	Toxic if swallowed
H400	:	Very toxic to aquatic life
H410	:	Very toxic to aquatic life with long lasting effects

2.2.2 According to 67/548/EEC REGULATION

Indication (s) of Danger :

Xn - Harmful

N – Dangerous for the Environment

Risk phrases

R 22	:	Harmful if swallowed
R 50/53	:	Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S 2	:	Keep out of the reach of children.
S 22	:	Do not breathe dust.
S 57	:	Use appropriate container to avoid environmental contamination.
S 60/61	:	This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions safety data sheet.

2.3 Other hazards

Specific concentration Limits and M factors: Not available

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name / CAS No	% w/w	Risk and Safety Phrases (67/548/EEC)	Hazard Symbol (67/548/EEC)	Hazard Pictograms (1272/2008/EC)	Hazard Statements (1272/2008/EC)
Imidacloprid / 138261-41-3	2.15	R: 22-50/53 S: 2-22-57-60-61	Xn, N	GHS07, GHS09, Wng	H302, H400, H410
Other ingredients	Up to 100	N/A	N/A	N/A	N/A

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General information

Caution. Hazard to humans and domestic animals. Avoid contact with skin, eye and clothing. Wash thoroughly with soap and water after handling.

4.1.2 In case of inhalation

Move affect person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

4.1.3 In case of skin contact

Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention

4.1.4 In case of eyes contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

4.1.5 In case of ingestion

Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor. Never give fluids or induce vomiting if patient is unconscious or is having convulsions

4.1.6 Notes for the doctor

No specific antidote if ingested. Treat symptomatically

4.2 Most important symptoms and effects, both acute and delayed

Apathetic state, depressed muscular tone, respiratory disturbances and trembling. Muscular cramps are also possible in severe cases of poisoning.

5.0 FIRE – FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : To be used: Water, carbon dioxide, sand and foam.

Unsuitable extinguishing media : Not available

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Nitride, chloride, carbon dioxide

5.3 Advice for fire-fighters

Fire fighters should wear full protective gear, including self-contained breathing apparatus, as toxic and irritating decomposition products may be produced in a fire. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area to prevent contamination of water sources. Dispose of fire control extinguishing agent and spillage later in a safe manner. Do not release contaminated water into the environment.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment : Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt and long pants.

Emergency procedures : Not available

6.1.2 For emergency responders

Personal protective equipments : Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants. Fire fighters should wear self breathing apparatus.

6.2 Environmental precautions

Adequate ventilation. The empty container may be decontaminated by rinsing two or three times with water and detergent and scrubbing the sides.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment

Contain spill and absorb with earth, sand, clay, or other other absorbent material.

6.3.2 For cleaning up

The empty container may be decontaminated by rinsing two or three times with water and detergent and scrubbing the sides.

6.3.3 Other information

Avoid contact with spilled material or contaminated surfaces. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing and equipment as detailed in Personal Protection section. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. Contain/absorb spillage in sand/earth or other suitable inert material. Transfer collected material to sealable

containers. Seal and label containers ready for disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

6.3.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

6.4 Additional information

N/A

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Fire preventions	:	See section 5. If it can be done safely, remove intact containers from the fire. Otherwise, use spray to cool them.
Environmental precautions	:	Prevent the contamination of the floor and the beds of water.

7.1.2 Advice on general occupational by hygiene

Do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Store at normal temperatures, away from children, domestic animals, food and feed products, seed and fertilizer.
Requirements for storage rooms and vessels	:	Keep in a well-ventilated room. Do not store for prolonged periods in direct sunlight
Hints on storage assembly	:	Not available
Storage class	:	Not available
Further information on storage conditions	:	Do not contaminate other stored products or the storage area by handling or storage of this product.

7.3 Specific use(s)

Recommendations	:	Not available
Industrial sector specific solutions	:	Not available

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits: Not available

8.1.2 Additional exposure limits under the conditions of use: Not available

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Control process conditions to avoid contact. Use in a well-ventilated area only.

8.2.2 Personal protection equipment

8.2.3 Eye / Face protection

Safety goggles or face shield.

8.2.4 Skin Protection

Hand protection

Protective gloves: Rubber gloves

Body protection

Wear cotton overalls buttoned to the neck and wrist and a washable hat.

8.2.5 Respiratory protection

Approved respirator. Wear a disposable mask if inhalation is likely.

8.2.6 Thermal hazards

Not available

8.2.7 Environmental exposure controls

Adequate ventilation

9.0 PHISICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	:	gel
Colour	:	Pale brown to brown
Odour	:	Not available
Odour threshold	:	Not available
pH	:	4.5 - 7.0
Boiling point/range (^{o}C)	:	Not available
Flash point (^{o}C)	:	No flash point up to 100°C
Flammability (solid, gas)	:	Not flammable

Ignition temperature (^{o}C)	:	Not available
Upper/lower flammability/explosive limits	:	Not applicable
Vapour pressure (^{o}C)	:	4 x 10^{-7} mPa at 20°C (imidacloprid)
Density (20^{o}C)	:	N/A
Water solubility	:	N/A
n-Octanol/Water (log Po/w)	:	Imidacloprid: Log P_{ow}= 0.57(21°C)
Auto-ignition temperature	:	Not Available
Decomposition temperature	:	Not available
Viscosity, dynamic (mPa s)	:	about 100mPa.s

9.2 Other information

Fat solubility (solvent-oil to be specified) etc	:	Not available
Bulk Density	:	Not available
Dissociation constant in water (pKa)	:	Not available
Oxidation-reduction Potential	:	Not available

10.0 STABILITY AND RELIABILITY

10.1 Reactivity

Not available

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Flame, fire and high temperature.

10.5 Incompatible materials

Incompatible with alkaline pesticides. Avoid acids and strong oxidizing agents.

10.6 Hazardous decomposition products

None under normal conitions. In a fire, formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides can be expected.

11.0 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

- LD50 (Dermal, Rat) : Dermal LD50 (rat):> 4,000 mg/kg
- LD50 (Oral, Rat) : Oral LD50 (rat): 2.000 mg/kg

Skin corrosion/Irritation : No skin irritating to rabbit

Serious eye damage/irritation : Slightly irritating to rabbit

Respiratory or skin sanitization : Inhalation LC50 (rat): > 3.452 mg/

Germ cell mutagenicity : Studies indicate that the product is not mutagenic.

Carcinogenicity : Imidacloprid is considered to be of minimal carcinogenic risk, Category: Group E carcinogen (evidence of non carcinogenicity for humans)

Reproductive toxicity : Not available

STOT- single exposure : Not available

STOT- repeated exposure : Not available

Aspiration hazard : Not available

12.0 ECOLOGICAL INFORMATION

12.1 Toxicity

12.1.1 Environmental toxicity

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. This product is highly toxic to bees exposed to direct treatment or residues on the foliage of blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. This product is toxic to wildlife. This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination

12.2 Persistence and degradability

No information available

12.3 Mobility in soil

Imidacloprid shows a medium adsorption to soil. Classified as immobile in soil. Not expected to leach.

12.4 Result of PBT & vPvB assessment

Not available

12.5 Other adverse effects

Dangerous to bees

13.0 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Triple or preferably pressure rinse containers before disposal. Add rinsing to treatment mixture. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of waste product through a reputable waste contractor. If disposal of unwanted treated seed is necessary, bury seed below 500 mm in a disposal pit, specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

13.2 Product / Packaging disposal

Do not contaminate water supplies by disposal of wastes or containers. Dispose of water product through a reputable waste contractor.

14.0 TRANSPORT INFORMATION

14.1 Land transport (ADR/RID/GGVSE): free

14.2 Sea transport (IMDG-Code/GGVSee): free

14.3 Air transport (ICAO-IATA/DGR): free

15.0 REGULATORY INFORMATION

15.1 Risk and safety phrases in accordance with the Directive 2001/58/EC

Hazard Symbol	See section 2.1.1 and 2.2.2
R-Risk Phrases	See section 2.1.1 and 2.2.2
S-Safety Phrases	See section 2.1.1 and 2.2.2

15.2 Hazard and Precautionary statements in accordance with the regulation 1272/2008/EC

Pictograms and Signal Word Code(s)	See section 2.1.1 and 2.2.1
Hazard Statement Code(s)	See section 2.1.1 and 2.2.1

16.0 OTHER INFORMATION

16.1 Hazard symbols mentioned in section 3 in accordance with the Directive 2001/58/EC

See section 2

16.2 Risk phrases mentioned in section 3 in accordance with the Directive 2001/58/EC:

See section 2

16.3 Safety phrases mentioned in section 3 in accordance with the Directive 2001/58/EC:

See section 2

16.4 Hazard symbols mentioned in section 3 in accordance with the regulation 1272/2008/EC

See section 2

16.5 Hazard statements mentioned in section 3 in accordance with the regulation 1272/2008/EC:

See section 2

16.6 Further Information

The information contained herein relates only to the specified material identified. AGROMEC, believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. AGROMEC urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

This material safety data sheet adopts the provisions of the European Commission Directive 2001/58/EC and Regulations 1272/2008 (CLP) and 453/2010 (REACH).