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Product name	<b>IMIDACLOPRID 70 WG</b>	January 2019
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes December 2016

## SAFETY DATA SHEET

### 5760-01, IMIDACLOPRID 70 WG



Revision: Sections containing a revision or new information are marked with a ♣.

#### ♣ SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1. **Product identifier** ..... **5760-01, IMIDACLOPRID 70 WG**  
**Contains imidacloprid**
- 1.2. **Relevant identified uses of the substance or mixture and uses advised against** ..... Can be used as insecticide only.
- 1.3. **Details of the supplier of the safety data sheet** **CHEMINOVA A/S**, a subsidiary of FMC Corporation  
 Thyborønvej 78  
 DK-7673 Harbøre  
 Denmark  
[SDS.Ronland@fmc.com](mailto:SDS.Ronland@fmc.com)
- 1.4. **Emergency telephone number**  
Company ..... +45 97 83 53 53 (24 h; for emergencies only)
- Medical emergencies:
- |                                     |   |
|-------------------------------------|---|
| Austria: +43 1 406 43 43            | Luxembourg: +352 8002 5500                                      |
| Belgium: +32 70 245 245             | Netherlands: +31 30 274 88 88                                   |
| Bulgaria: +359 2 9154 409           | Norway: +47 22 591300   |
| Cyprus: 1401                        | Poland: +48 22 619 66 54  |
| Czech Republic: +420 224 919 293    | +48 22 619 08 97  |
| +420 224 915 402                    | Portugal: 808 250 143 (in Portugal only)                        |
| Denmark: +45 82 12 12 12            | +351 21 330 3284  |
| England and Wales: 111              | Romania: +40 21318 3606   |
| Estonia: +372 7943500               | Scotland: +8454 24 24 24  |
| France: +33 (0) 1 45 42 59 59       | Slovakia: +421 2 54 77 4 166                                    |
| Finland: +358 9 471 977             | Slovenia: +386 41 650 500                                       |
| Greece: 30 210 77 93 777            | South Africa: +27 83 123 3911 (Bateleur Emergency Response Co.) |
| Hungary: +36 80 20 11 99            | Spain: +34 91 562 04 20   |
| Ireland (Republic): +353 1 837 9964 | Sweden: +46 08-331231   |
| Italy: +39 02 6610 1029             | 112   |
| Latvia: +371 670 42 473             | Switzerland: 145  |
| 112                                 | Turkey: 114   |
| Lithuania: +370 523 62052           | U.S.A. & Canada: +1 800 / 331 3148                              |
| +370 687 53378                      | All other countries: +1 651 / 632 6793 (Collect)                |

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## SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the substance or mixture**
- Acute oral toxicity: Category 4 (H302)  
 Inhalation toxicity: Category 4 (H332)  
 Hazards to the aquatic environment, acute: Category 1 (H400)  
 chronic: Category 1 (H410)
- WHO classification ..... Class II: Moderately hazardous
- Health hazards ..... The product is harmful by inhalation and ingestion.
- Environmental hazards ..... The product is very toxic to aquatic invertebrates.
- 2.2. Label elements**  
According to EU Reg. 1272/2008 as amended
- Product identifier ..... 5760-01, Imidacloprid 70 WG  
 Contains imidacloprid
- Hazard pictograms (GHS07, GHS09)
- 

- Signal word ..... Warning
- Hazard statements
- H302 ..... Harmful if swallowed.  
 H332 ..... Harmful if inhaled.  
 H410 ..... Very toxic to aquatic life with long lasting effects.
- Supplementary hazard statement
- EUH401 ..... To avoid risks to human health and the environment, comply with the instructions of use.
- Precautionary statements
- P264 ..... Wash hands thoroughly after handling.  
 P271 ..... Use only outdoors or in a well-ventilated area.  
 P301+P330 ..... IF SWALLOWED: Rinse mouth.  
 P304+P340 ..... IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P312 ..... Call a POISON CENTER or doctor/physician if you feel unwell.  
 P501 ..... Dispose of contents/container as hazardous waste.
- 2.3. Other hazards** ..... None of the ingredients in the product meets the criteria for being PBT or vPvB.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

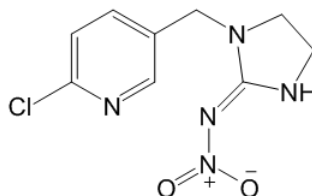
- 3.1. Substances** ..... The product is a mixture, not a substance.
- 3.2. Mixtures** ..... See section 16 for full text of hazard statements.

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#### Active ingredient

<b>Imidacloprid</b> .....	Content: 70% by weight
CAS name .....	2-Imidazolidinimine, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-
CAS no. ....	138261-41-3
IUPAC name .....	1-(6-Chloro-3-pyridinyl)methyl-N-nitroimidazolidin-2-ylidene-amine
ISO name .....	Imidacloprid
EC no. ....	ELINCS no.: 428-040-8
EU index no. ....	612-252-00-4
Classification of the substance .....	Acute oral toxicity: Category 4 (H302) Hazards to the aquatic environment, acute: Category 1 (H400) chronic: Category 1 (H410)

Structural formula .....



#### Reportable ingredients

	Content (% w/w)	CAS no.	EC no. (EINECS no.)	Classification
Lignosulfonic acid, sodium salt, sulfomethylated	10	68512-34-5	None	Eye Irrit. 2 (H319)
Sodium alkyl naphthalenesulphonate-formaldehyde condensate	2	577773-56-9	None	Eye Irrit. 2 (H319)

### ♣ SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

Inhalation .....	If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
Skin contact .....	Immediately flush skin with much water while removing contaminated clothing and footwear. Wash with water and soap. See physician if irritation develops.
Eye contact .....	Immediately rinse eyes with much water or eyewash solution, occasionally opening eyelids, until no evidence of chemical remains. Remove contact lenses after a few minutes and rinse again. See physician if irritation develops.
Ingestion .....	Let the exposed person rinse mouth and let him/her drink several glasses of water or milk, but not induce vomiting. If vomiting does occur, let him/her rinse mouth and drink fluids again. Get medical attention immediately.

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- 4.2. **Most important symptoms and effects, both acute and delayed** After oral intake: gastrointestinal discomfort, tremors and difficulty breathing.
- 4.3. **Indication of any immediate medical attention and special treatment needed** Immediate medical attention is required in case of ingestion.  
 It may be helpful to show this safety data sheet to physician.
- Notes to physician ..... A specific antidote against this product is not known. Gastric lavage and/or administration of activated charcoal can be considered. After decontamination, treatment is supportive and symptomatic as for a general chemical.

#### SECTION 5: FIRE-FIGHTING MEASURES

- 5.1. **Extinguishing media** ..... Dry chemical or carbon dioxide for small fires, water spray or foam for large fires. Avoid heavy hose streams.
- 5.2. **Special hazards arising from the substance or mixture** The essential breakdown products are volatile, malodorous, toxic, irritant and inflammable compounds such as nitrogen oxides, sulphur dioxide, hydrogen chloride, hydrogen cyanide, carbon monoxide, carbon dioxide and various chlorinated organic compounds.
- 5.3. **Advice for firefighters** ..... Use water spray to keep fire-exposed containers cool. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Fight fire from protected location or maximum possible distance. Dike area to prevent water runoff. Firemen should wear self-contained breathing apparatus and protective clothing.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. **Personal precautions, protective equipment and emergency procedures** It is recommended to have a predetermined plan for the handling of spills. Empty, closable vessels for the collection of spills should be available.  
 In case of large spill (involving 10 tonnes of the product or more):  
 1. use personal protection equipment; see section 8  
 2. call emergency telephone no.; see section 1  
 3. alert authorities.  
 Observe all safety precautions when cleaning up spills. Use personal protection equipment. Depending on the magnitude of the spill this may mean wearing respirator, face mask or eye protection, chemical resistant clothing, gloves and boots.  
 Stop the source of the spill immediately if safe to do so. Reduce and avoid vapour or dust formation as much as possible, if appropriate by moistening. Remove sources of ignition.
- 6.2. **Environmental precautions** ..... Contain the spill to prevent any further contamination of surface, soil or water. Wash waters must be prevented from entering surface water

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drains. Uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

### 6.3. Methods and materials for containment and cleaning up

It is recommended to consider possibilities to prevent damaging effects of spills, such as bunding or capping. See GHS (Annex 4, Section 6).

Use non-sparking tools and equipment. If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be swept up immediately or preferably vacuumed up using equipment with high efficiency final filter. Clean area with much water and industrial detergent. Absorb wash liquid onto an absorptive material such as universal binder, attapulgate, bentonite or other absorbent clays and collect in suitable containers. The used containers should be properly closed and labelled.

Large spills which soak into the ground should be dug up and transferred to suitable containers.

Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and removed for treatment or disposal.

### 6.4. Reference to other sections .....

See subsection 7.1. for fire prevention  
 See subsection 8.2. for personal protection.  
 See section 13 for disposal.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling ....

Like most organic powders, the substance can form explosive mixtures with air. Avoid dust formation and take precautionary measures against static discharge. Use explosion protected equipment. Keep away from sources of ignition.

In an industrial environment it is recommended to avoid all personal contact with the product, if possible by using closed systems with remote system control. The material should be handled by mechanical means as much as possible. Adequate ventilation or local exhaust ventilation is required. The exhaust gases should be filtered or treated otherwise. For personal protection in this situation, see section 8.

For its use as a pesticide, first look for precautions and personal protection measures on the officially approved label on the packaging or for other official guidance or policy in force. If these are lacking, see section 8.

Remove contaminated clothing immediately. Wash thoroughly after handling. Before removing gloves, wash them with water and soap. After work, take off all work clothes and footwear. Take a shower, using water and soap. Wear only clean clothes when leaving job.

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Wash protective clothing and protective equipment with water and soap after each use.

Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

**7.2. Conditions for safe storage, including any incompatibilities**

The product is stable under normal conditions of warehouse storage at temperatures of -10 to 40°C. Protect against extremes of heat and cold.

Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.

**7.3. Specific end use(s) .....**

The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

**♣ SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Personal exposure limits .....

To our knowledge, personal exposure limits have not been established for imidacloprid or any other component in this product. However, exposure limits defined by local regulations may exist and must be observed.

**Imidacloprid**

DNEL, oral .....

Not established  
 EFSA has established an AOEL of 0.08 mg/kg bw/day

DNEL, inhalation .....

0.007 mg/kg bw/day

PNEC, aquatic .....

36 µg/l

**8.2. Exposure controls .....**

When used in a closed system, personal protection equipment will not be required. The following is meant for other situations, when the use of a closed system is not possible, or when it is necessary to open the system. Consider the need to render equipment or piping systems non-hazardous before opening.

The precautions mentioned below are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be recommended for spraying as well.

In cases of incidental high exposure, maximal personal protection may

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be necessary, such as respirator, face mask, chemical resistant coveralls.



Respiratory protection

In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.



Protective gloves .....

Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. The breakthrough times of these materials for the product are unknown, but it is expected that they will give adequate protection. It is recommended to limit the work to be done manually.



Eye protection .....

Wear goggles, safety glasses or face shield. It is recommended to have an eye wash fountain immediately available in the workplace when there is a potential for eye contact.



Other skin protection

Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be discarded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on physical and chemical properties

Appearance .....	Brown solid (granules)
Odour .....	Characteristic
Odour threshold .....	Not determined
pH .....	1% solution in water: 10.46 at 25°C
Melting point/freezing point .....	Not determined
Initial boiling point and boiling range	Not determined
Flash point .....	Not determined
Evaporation rate .....	Not determined
Flammability (solid/gas) .....	Not highly flammable
Upper/lower flammability or explosive limits .....	Not determined
Vapour pressure .....	<b>Imidacloprid</b> : 4 x 10 <sup>-10</sup> Pa at 20°C
Vapour density .....	Not determined
Relative density .....	Not determined
	Pour density: 0.60 g/cm <sup>3</sup>
	Tap density: 0.64 g/cm <sup>3</sup>
Solubility(ies) .....	Solubility of <b>imidacloprid</b> at 20°C in:
	isopropanol 1.2 g/l
	n-hexane < 0.1 g/l
	water 0.61 g/l

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Partition coefficient n-octanol/water	<b>Imidacloprid</b>	: log K <sub>ow</sub> = 0.57 at 20°C
Autoignition temperature .....	> 400°C	
Decomposition temperature .....	Not determined	
Viscosity .....	Not determined	
Explosive properties .....	Not explosive	
Oxidising properties .....	Not oxidising	

## 9.2. Other information

Miscibility .....	The product is miscible with water.
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## SECTION 10: STABILITY AND REACTIVITY

10.1. <b>Reactivity</b> .....	To our knowledge, the product has no special reactivities.
10.2. <b>Chemical stability</b> .....	The product is stable during normal handling and storage at ambient temperatures.
10.3. <b>Possibility of hazardous reactions</b>	None known.
10.4. <b>Conditions to avoid</b> .....	Heating of the product will produce harmful and irritant vapours.
10.5. <b>Incompatible materials</b> .....	None known.
10.6. <b>Hazardous decomposition products</b>	See subsection 5.2.

## SECTION 11: TOXICOLOGICAL INFORMATION

11.1. <b>Information on toxicological effects</b>	* = Based on available data, the classification criteria are not met.
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### Product

Acute toxicity .....	The product is harmful by inhalation and if swallowed. The acute toxicity of the product is measured as:
Route(s) of entry	- ingestion LD <sub>50</sub> , oral, rat: 1044 mg/kg (method OECD 425)
	- skin LD <sub>50</sub> , dermal, rat: > 2000 mg/kg (method OECD 402) *
	- inhalation LC <sub>50</sub> , inhalation, rat (female): > 5.10 mg/l/4 h (method OECD 403)
	LC <sub>50</sub> , inhalation, rat (male): 4.36 mg/l/4 h
Skin corrosion/irritation .....	The product is mildly irritating to skin (method OECD 404). *
Serious eye damage/irritation .....	The product is minimally irritating to eyes (method OECD 405). *
Respiratory or skin sensitisation ...	The product was not sensitising in the Local Lymph Node Assay (method OECD 429). *
Germ cell mutagenicity .....	The product contains no ingredient known to be mutagenic. *
Carcinogenicity .....	The product contains no ingredient known to be carcinogenic. *



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Reproductive toxicity .....	The product contains no ingredient found to have adverse effects on reproduction. *
STOT – single exposure .....	To our knowledge, specific effects after single exposure have not been observed. *
STOT – repeated exposure .....	The following has been found for the active ingredient imidacloprid: NOAEL: 150/600 ppm, equivalent to 14.0 mg/kg bw/day for males and 83.3 mg/kg bw/day for females, based on decreased body weight gain at 600 ppm (males) and 2400 ppm (females) and functional changes in the liver at 2400 ppm in females (method OECD 408). *
Aspiration hazard .....	The product does not present an aspiration pneumonia hazard. *
Symptoms and effects, acute and delayed	After oral intake, gastrointestinal discomfort, tremors and difficulty breathing.
<u><i>Imidacloprid</i></u>	
Toxicokinetics, metabolism and distribution	Imidacloprid is rapidly absorbed following oral administration. It is widely distributed in the body. The metabolism rate is high. Elimination is fast and complete. There is no indication of bioaccumulation.
Acute toxicity .....	The substance is harmful by ingestion, but not considered as harmful by inhalation or dermal contact. The acute toxicity of imidacloprid is measured as:
Route(s) of entry	- ingestion LD <sub>50</sub> , oral, rat (male): 379 - 648 mg/kg (method OECD 401) - skin LD <sub>50</sub> , dermal, rat: > 5000 mg/kg (method OECD 402) * - inhalation LC <sub>50</sub> , inhalation, rat: > 0.069 mg/l/4 h (method OECD 403)
Skin corrosion/irritation .....	Not irritating to skin (method OECD 404). *
Serious eye damage/irritation .....	Not irritating to eyes (method OECD 405). *
Respiratory or skin sensitisation ...	Not a skin sensitizer (method OECD 406). *
<u><i>Lignosulfonic acid, sodium salt, sulfomethylated</i></u>	
Acute toxicity .....	The substance is not considered harmful by single exposure. *
Route(s) of entry	- ingestion LD <sub>50</sub> , oral, rat: not available - skin LD <sub>50</sub> , dermal, rat: not available - inhalation LC <sub>50</sub> , inhalation, rat: not available
Serious eye damage/irritation .....	Causes serious eye irritation.
<u><i>Sodium alkyl naphthalenesulphonate-formaldehyde condensate</i></u>	
Acute toxicity .....	The substance is not considered harmful by single exposure. *
Route(s) of entry	- ingestion LD <sub>50</sub> , oral, rat: > 5000 mg/kg

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- skin	LD <sub>50</sub> , dermal, rat: not available
- inhalation	LC <sub>50</sub> , inhalation, rat: not available
Skin corrosion/irritation .....	May be mildly irritating to skin. *
Serious eye damage/irritation .....	Irritating to eyes.
STOT – single exposure .....	Inhalation of dust can cause irritation of airways. It is not clear if the criteria for classification are met.

## SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity ..... The product is an insecticide and very toxic to bees. It may be toxic to other species of insects or related organisms. The product is harmful to birds and soil macroorganisms, but is not considered as harmful to fish, aquatic plants and daphnids. It may have short-term effects on soil microorganisms, but no significant long-term effects have been observed.

The ecotoxicity is measured on the product as:

- Fish	Rainbow trout ( <i>Oncorhynchus mykiss</i> ) .....	96-h LC <sub>50</sub> : > 100 mg/l
- Invertebrates	Daphnids ( <i>Daphnia magna</i> ) .....	48-h EC <sub>50</sub> : > 100 mg/l
	.....	
- Algae	Green algae ( <i>Pseudokirchneriella subcapitata</i> )	72-h IC <sub>50</sub> : 73 mg/l
- Birds	Bobwhite quail ( <i>Colinus virginianus</i> ) .....	LD <sub>50</sub> : 1055 mg/kg
- Earthworms	<i>Eisenia fetida</i> .....	14-day LC <sub>50</sub> : 15 mg/kg dry soil
- Bees	Honey bees ( <i>Apis mellifera</i> L.) .....	48-h LD <sub>50</sub> , acute oral: 0.0036 µg/bee 48-h LD <sub>50</sub> , contact: 0.028 µg/bee

The ecotoxicity measured on the active ingredient imidacloprid is:

- Invertebrates	Amphipods ( <i>Hyaella azteca</i> ) .....	96-h LC <sub>50</sub> : 0.526 mg/l
	Mysid shrimp ( <i>Mysidopsis bahia</i> ) .....	96-h LC <sub>50</sub> : 0.0341 mg/l
- Birds	Japanese quail ( <i>Coturnix coturnix japonica</i> ) .....	LD <sub>50</sub> : 31 mg/kg 5-day dietary LD <sub>50</sub> : 2225 ppm in feed

- 12.2. Persistence and degradability .... **Imidacloprid** is not readily biodegradable. It undergoes slow degradation in the environment and in waste water treatment plants. Degradation is mainly microbiological and aerobic, but photo-degradation also occurs. Primary degradation half-lives in the environment vary much with circumstances, usually from a few months to one year.

The product contains minor amounts of not readily biodegradable

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ingredients, which may not be degradable in waste water treatment plants.

12.3. **Bioaccumulative potential** ..... See section 9 for n-octanol/water partition coefficient.

**Imidacloprid** is not expected to bioaccumulate.

12.4. **Mobility in soil** ..... In the environment, **imidacloprid** is of moderate mobility.

12.5. **Results of PBT and vPvB assessment** ..... None of the ingredients meets the criteria for being PBT or vPvB.

12.6. **Other adverse effects** ..... Other relevant hazardous effects in the environment are not known.

#### ♣ SECTION 13: DISPOSAL CONSIDERATIONS

13.1. **Waste treatment methods** ..... Remaining quantities of the material and empty but unclean packaging should be regarded as hazardous waste.

Disposal of waste and packagings must always be in accordance with all applicable local regulations.

Disposal of product ..... According to the Waste Framework Directive (2008/98/EC), possibilities for reuse or reprocessing should first be considered. If this is not feasible, the material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing.

Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Disposal of packaging ..... It is recommended to consider possible ways of disposal in the following order:

1. Reuse or recycling should first be considered. Reuse is prohibited except by the authorisation holder. If offered for recycling, containers must be emptied and triply rinsed (or equivalent). Do not discharge rinsing water to sewer systems.
2. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.
3. Delivery of the packaging to a licensed service for disposal of hazardous waste.
4. Disposal in a landfill or burning in open air should only occur as a last resort. For disposal in a landfill, containers should be emptied completely, rinsed and punctured to make them unusable for other purposes. If burned, stay out of smoke.

#### ♣ SECTION 14: TRANSPORT INFORMATION

##### ADR/RID/IMDG/IATA/ICAO classification

14.1. **UN number** ..... 3077

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- 14.2. **UN proper shipping name** ..... Environmentally hazardous substance, solid, n.o.s. (imidacloprid)
- 14.3. **Transport hazard class(es)** ..... 9
- 14.4. **Packing group** ..... III
- 14.5. **Environmental hazards** ..... Marine pollutant
- 14.6. **Special precautions for user** ..... Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment.
- 14.7. **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code** ..... The product is not transported in bulk by ship.

#### SECTION 15: REGULATORY INFORMATION

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture** ..... Seveso category (Dir. 2012/18/EU): dangerous for the environment  
 All ingredients are covered by EU chemical legislation.
- 15.2. **Chemical safety assessment** ..... A chemical safety assessment is not required to be included for this product.

#### ♣ SECTION 16: OTHER INFORMATION

- Relevant changes in the safety data sheet ..... Minor corrections only.
- List of abbreviations .....
- |                  |  |
|------------------|--|
| AOEL             | Acceptable Operator Exposure Level   |
| CAS              | Chemical Abstracts Service   |
| Dir.             | Directive  |
| DNEL             | Derived No Effect Level  |
| EC               | European Community   |
| EC <sub>50</sub> | 50% Effect Concentration   |
| EFSA             | European Food Safety Authority   |
| EINECS           | European INventory of Existing Commercial Chemical Substances                                    |
| ELINCS           | European List of Notified Chemical Substances  |
| GHS              | Globally Harmonized classification and labelling System of chemicals, Fifth revised edition 2013 |
| IBC              | International Bulk Chemical code   |
| IC <sub>50</sub> | 50% Inhibition Concentration   |
| ISO              | International Organisation for Standardization   |
| IUPAC            | International Union of Pure and Applied Chemistry  |
| LC <sub>50</sub> | 50% Lethal Concentration   |
| LD <sub>50</sub> | 50% Lethal Dose  |
| MARPOL           | Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution  |

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NOAEL	No Observed Adverse Effect Level
n.o.s.	Not otherwise specified
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative, Toxic
PNEC	Predicted No Effect Concentration
Reg.	Regulation
STOT	Specific Target Organ Toxicity
vPvB	very Persistent, very Bioaccumulative
WG	Water dispersible Granules
WHO	World Health Organisation

References ..... Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

Method for classification ..... Acute oral toxicity: test data  
 Inhalation toxicity: test data  
 Hazards to the aquatic environment, acute: test data  
 chronic: calculation method

Used hazard statements ..... H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 EUH401 To avoid risks to human health and the environment, comply with the instructions of use.

Advice on training ..... This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

The information provided in this safety data sheet is believed to be accurate and reliable, but uses of the product vary and situations unforeseen by FMC Corporation may exist. The user has to check the validity of the information under local circumstances.

Prepared by: FMC Corporation / Cheminova A/S / GHB