

MAKFOR Q

Version 2 / MAL 102000018213

1/9 Revision Date: 20.06.2018 Print Date: 22.06.2018

SECTION 1: IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE **SUPPLIER**

1.1 Product identifier

Trade name

MAKFOR Q

Product code (UVP)

79212690

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use

Insecticide, Ant killer

1.3 Details of the supplier of the safety data sheet

Supplier

Bayer AG

Local distributor

Kaiser-Wilhelm-Allee 1

Bayer Co. (Malaysia) Sdn Bhd

51373 Leverkusen

B-19-1 & B-19-2,

Germany

The Ascent Paradigm, No. 1, Jalan SS 7/26A, Kelana

47301 Petaling Jaya, Selangor.

Malaysia

Telephone

03 7801 3088 (office hours)

Telefax

03 7886 3338

1.4 Emergency telephone no.

In case of POISONING.

please contact

NATIONAL POISON CENTRE -1-800-88-8099 (office hours)

- 012-4309499 (after office hours)

Global Incident Response

Hotline (24h)

+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

Chronic aquatic toxicity: Category 2

H411

Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to the Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

Imidacloprid



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Hazard statements

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements

P501

Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

3.2 Mixtures

Chemical nature

Bait (ready for use) (RB) Imidacloprid 0,03 % w/w

Hazardous components

Name	CAS-No.	Conc. [%]	
Imidacloprid	138261-41-3	0.03	

Further information

	Imidacloprid	138261-41-3	M-Factor: 10 (acute), 1,000 (chronic)	
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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of

safely.

Skin contact

Wash off immediately with soap and plenty of water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation

develops and persists.

Ingestion

Rinse mouth. Do NOT induce vomiting. Call a physician or poison

control center immediately.

4.2 Most important symptoms and effects, both acute and delayed



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Symptoms

If large amounts are ingested, the following symptoms may occur:

Dizziness, Abdominal pain, Nausea

Symptoms and hazards refer to effects observed after intake of

significant amounts of the active ingredient(s).

Due to its low concentration intake of a hazardous amount of active

ingredient from this formulation is unlikely.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

Treat symptomatically. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always

advisable. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable

Water spray, Carbon dioxide (CO2), Foam, Sand

Unsuitable

None known.

5.2 Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Carbon monoxide

(CO)

5.3 Advice for firefighters

Special protective

equipment for firefighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

Further information

Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions

Avoid contact with spilled product or contaminated surfaces. Use

personal protective equipment.

6.2 Environmental precautions

Do not allow to get into surface water, drains and ground water.



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6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled nevertheless, the following advice is applicable. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

No specific precautions required when handling unopened

packs/containers; follow relevant manual handling advice. Avoid contact

with skin, eyes and clothing.

Hygiene measures

Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be

destroyed (burnt).

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Protect from frost. Keep away from direct sunlight.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Suitable materials

Polypropylene

Polyethylene film within an outer package

HDPE (high density polyethylene)

7.3 Specific end use(s)

Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Imidacloprid	138261-41-3	0.7 mg/m3 (TWA)		OES BCS*
Sucrose	57-50-1	10 mg/m3 (TWA)	03 2000	MY OEL

^{*}OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls



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Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

Respiratory protection is not required under anticipated

circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Material

Nitrile rubber > 480 min

Rate of permeability Glove thickness

> 0.4 mm

Directive

Protective gloves complying with EN

374.

Eye protection

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection

Wear standard coveralls and Category 3 Type 6 suit.

If there is a risk of significant exposure, consider a higher protective

type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully

remove and dispose of as advised by manufacturer.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form

gel

Colour

colourless to light yellow

Odour

weak, characteristic

рΗ

4.0 - 6.0 at 10 % (23 °C) (deionized water)

P11

> 100 °C

Auto-ignition temperature

380 °C

Density

Flash point

ca. 1.43 g/cm³ at 20 °C

Partition coefficient: n-

Imidacloprid: log Pow: 0.57



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octanol/water

Viscosity, dynamic

>= 5,400 mPa.s at 20 °C Velocity gradient 80 /s

Oxidizing properties

No oxidizing properties

Explosivity

Not explosive

92/69/EEC, A.14 / OECD 113

9.2 Other information

Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition

175 °C, Heating rate: 3 K/min Exothermic decomposition.

The value mentioned relates to the active ingredient.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Store only in the original container.

10.6 Hazardous

decomposition products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity

LD50 (Rat) > 2,500 mg/kg

Test conducted with a similar formulation.

Acute inhalation toxicity

During intended and foreseen applications, no respirable aerosol is

formed.

Acute dermal toxicity

LD50 (Rat) > 2,000 mg/kg

Test conducted with a similar formulation.

Skin irritation

No skin irritation (Rabbit)

Test conducted with a similar formulation.

Eye irritation

No eye irritation (Rabbit)

Test conducted with a similar formulation.

Sensitisation

Non-sensitizing. (Guinea pig)

OECD Test Guideline 406, Magnusson & Kligman test

Test conducted with a similar formulation.

Assessment STOT Specific target organ toxicity - repeated exposure



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Imidacloprid did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

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

Assessment carcinogenicity

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

Assessment toxicity to reproduction

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

Assessment developmental toxicity

Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 211 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient imidacloprid.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 85 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient imidacloprid.

EC50 (Chironomus riparius (non-biting midge)) 0.0552 mg/l

Exposure time: 24 h

The value mentioned relates to the active ingredient imidacloprid.

Chronic toxicity to aquatic invertebrates

EC10 (Chironomus riparius (non-biting midge)): 0.87 μg/l

Exposure time: 28 d

The value mentioned relates to the active ingredient imidacloprid.

EC10 (Caenis horaria (Mayfly)): 0,024 μg/l

Exposure time: 28 d

The value mentioned relates to the active ingredient imidacloprid.

Toxicity to aquatic plants IC50 (Desmodesmus subspicatus (green algae)) > 10 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient imidacloprid.

12.2 Persistence and degradability

Biodegradability Imidacloprid:

Not rapidly biodegradable

Koc Imidacloprid: Koc: 225



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12.3 Bioaccumulative potential

Bioaccumulation

Imidacloprid:

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil

Imidacloprid: Moderately mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment

Imidacloprid: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Additional ecological

information

No other effects to be mentioned.

SECTION 13: DISPOSAL INFORMATION

13.1 Waste treatment methods

Product

In accordance with current regulations and, if necessary, after

consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging

Not completely emptied packagings should be disposed of as

hazardous waste.

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number

3077

14.2 Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(IMIDACLOPRID MIXTURE)

14.3 Transport hazard class(es)

è

14.4 Packaging Group

Ш

14.5 Environm. Hazardous Mark

YES

Hazard no.

90

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

14.1 UN number

3077

14.2 Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(IMIDACLOPRID MIXTURE)

14.3 Transport hazard class(es)

9

14.4 Packaging Group

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14.5 Marine pollutant

YES



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IATA

14.1 UN number

3077

14.2 Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(IMIDACLOPRID MIXTURE)

14.3 Transport hazard class(es)

9

14.4 Packaging Group

III

14.5 Environm. Hazardous Mark

YES

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Further information

WHO-classification: III (Slightly hazardous)

SECTION 16: OTHER INFORMATION

The information contained within this Safety Data Sheet is in accordance to The Industry Code of Practice on Chemical Classification and Hazard Communication 2013 (ICOP) which is promulgated under Section 37 of Occupational Safety and Health Act 1994 (OSHA 1994) and serves as a guidance to chemical suppliers to comply with the provisions of Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U. (A) 310/2013] which have been gazetted on 11 October 2013, hereinafter is referred to as "the Regulations". This data sheet complements the user's instructions, but does not replace them. The information contained therein is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with the current Malaysia legislation, including the Pesticides Act 1974. Addressees are requested to observe any additional national requirements.

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