SAFETY DATA SHEET

MAXFORCE QUANTUM LIQUID ANT BAIT

Revision Date: 23.02.2023

Version 1 / NZ

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

1.1 Product identifier

Trade name MAXFORCE QUANTUM LIQUID ANT BAIT

Product code (UVP) 79212690

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

Use Insecticide, Ant killer

EPA Approval HSR100039

1.3 Details of the supplier of the safety data sheet

Importer/distributor

Garrards (NZ) Ltd
Unit 4/27B Cain Road
Penrose
Auckland 0627
New Zealand
Telephone: 09 526 5232
www.garrards.co.nz

1.4 Emergency telephone numbers

Emergency Number **For specialist advice in an emergency call +64 9801 0034 or 0800 425 459 toll free.**
The toll free phone number is possibly accessible, but not guaranteed from payphones within New Zealand and is not accessible from outside of New Zealand.

National Poisons Centre 0800 764 766 [0800 POISON]

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020

Hazardous to the aquatic environment, chronic Category 3
H412 Harmful to aquatic life with long-lasting effects .

Hazardous to terrestrial invertebrates.

2.2 Label elements

Labelling in accordance with Hazardous Substances (Labelling) Notice 2017

Pictograms

Signal word: Warning

Hazard statements

H412 Harmful to aquatic life with long lasting effects.
Very toxic to terrestrial invertebrates.

Precautionary statements

P103 Read label before use.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Bait (ready to use) containing Imidacloprid 0.3 g/kg

Hazardous components

Name	CAS-No.	Conc. [%]
Imidacloprid	138261-41-3	0.03
Other ingredients	Proprietary	To balance

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice If medical advice is needed, have product container or label at hand. Contact the National Poisons Centre 0800 764 766 (0800 POISON]. Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

Inhalation Unlikely to be exposure route.

Skin contact Immediately wash with plenty of soap and 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 doctor or National Poisons Centre immediately for advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms If large amounts ingested may have symptoms of nausea, abdominal pain, dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Risks Due to the low concentration of active ingredient in the product it is unlikely sufficient will be ingested to be a hazardous concentration.

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	Use water spray, alcohol-resistant foam, dry chemical, sand.
Unsuitable	None known.
5.2 Special hazards arising from the substance or mixture	In the event of a fire, hazardous compounds/gases, e.g. carbon monoxide, may be released.

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	Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions	Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Use personal protective equipment.
6.2 Environmental precautions	Contain spillage. Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	The form of the product (small commercial pack) makes a spillage unlikely. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
Additional advice	Comply with any local regulations.
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 Read label before use.

Advice on protection against fire and explosion No specific information.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing immediately and wash before reuse. Items that cannot be cleaned must be destroyed (burnt).

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Keep out of reach of children. Keep tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Protect from frost. Keep away from direct sunlight.
Storage of more than 1000 kg requires signage, secondary containment and an emergency response plan.

Advice on common storage Keep away from food, drink and animal feeding stuffs.

Suitable materials HDPE (high density polyethylene), Polypropylene, Polyethylene film within outer packaging.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Exposure	Basis
Imidacloprid	138261-41-3	0.7 mg/m3 (TWA)	Inhalation	OES BCS*
Sucrose	57-50-1	10 mg/m3 (TWA)	Inhalation	NZ TWA**

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"
** NZ Workplace exposure standards and biological exposure indices, WORKSAFE, ed. 13, April 2022

8.2 Exposure controls

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 Rate of permeability: > 480 min Glove thickness: > 0.4 mm Protective index: Class 6 Directive: Protective gloves complying with relevant standard
Eye protection	Wear chemical goggles.
Skin and body protection	Wear standard coveralls. 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.
General information	The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colorless to light yellow viscous liquid (gel)
Odour	Weak, characteristic
Odour threshold	No information
pH	4.0 - 6.0 (10% aqueous) (23 °C)
Freezing point	No information
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Flammability (solid, gas)	Non-flammable
Upper/lower flammability or explosive limits	No information
Vapour pressure	No information
Vapour density	No information
Relative density	ca. 1.43 g/cm³ at 20 °C
Solubility	Imidacloprid water solubility, 610 mg/L

Partition coefficient: n-octanol/water	Imidacloprid: log Pow 0.57
Auto-ignition temperature	380^{0}C
Decomposition temperature	No information
Viscosity, dynamic	≥5,400 mPa.s. (20^{0}C); velocity gradient 80/s
Particle characteristics	No information
9.2 Other information	Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition	Stable under normal conditions. Imidacloprid degrades at 175^{0}C (heating rate 3K/min)
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 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	Not classified.
Acute inhalation toxicity	Not classified.
Acute dermal toxicity	Not classified.
Skin irritation	Non-irritating (study on similar formulation).
Eye irritation	Non-irritating (study on similar formulation).
Respiratory sensitisation	Not classified
Skin sensitisation	Non-sensitizing (Buehler, and Magnusson & Kligman tests on similar formulation)
Aspiration hazard	Based on available data, the classification criteria are not met.

Assessment mutagenicity

Imidacloprid is not mutagenic nor genotoxic 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 reproductive toxicity in a two-generation study in rats but at doses also toxic to parent animals.

Assessment developmental toxicity

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

Assessment of toxicity by lactation

Not classified.

Assessment STOT Specific target organ toxicity – single exposure

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

Assessment STOT Specific target organ toxicity – repeated exposure

Imidacloprid affects liver (hepatotoxicity) and muscles.

Toxicological data

Oral LD50 (Rat) >2,500 mg/kg (study on similar formulation)

Dermal LD50 (Rat) > 2,000 mg/kg (study on similar formulation)

Further information

Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Hazard classification	Harmful to aquatic life with long lasting effects. Very toxic to terrestrial invertebrates.
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. LC50 (*Chironomus riparius* (non-biting midge) 0.0552 mg/L Exposure time: 24 h The value mentioned relates to the active ingredient Imidacloprid. LC50 (*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 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: 225

12.3 Bioaccumulative potential

Bioaccumulation	Imidacloprid: Does not bioaccumulate

12.4 Mobility in soil

Mobility in soil	Imidacloprid: Moderately mobile in soil.

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 further ecological information is available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Contaminated packaging	Triple rinse containers. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.

SECTION 14: TRANSPORT INFORMATION

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

ADR/RID/ADN

14.1 UN number	**3082**
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
Hazchem Code	3Z

IMDG

14.1 UN number	**3082**
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	YES

IATA

14.1 UN number	**3082**
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environ. 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

HSNO Act 1996

HSNO substance No.	HSR100039
HSNO Controls	See www.epa.govt.nz

ACVM Act 1996

ACVM registration No.	Exempt
ACVM conditions	See www.foodsafety.govt.nz
Other product approvals	Approved Maintenance Compound Type D-30

SECTION 16: OTHER INFORMATION

Date issued: 23rd February 2023
Reason for issue: Change is supplier and 5-yearly review, update to GHS
Replaces:

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %

LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TWA	Time weighted average
UN	United Nations
WHO	World Health organisation

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.