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Product name	2069, ABAMECTIN 36 g/l EW (THOR 3.6 EW)	November 2021
Safety data sheet according to EU Reg. 1907/2006 as amended		Supersedes November 2015

SAFETY DATA SHEET

2069, ABAMECTIN 36 g/l EW

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** **2069, ABAMECTIN 36 g/l EW**
Contains avermectin B1a
- Thor 3.6 EW**
- 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** **FMC Agricultural Solutions A/S**
Thyborønvej 78
DK-7673 Harboøre
Denmark
SDS-Info@fmc.com
- 1.4. **Emergency telephone number** ... For leak, fire, spill or accident emergencies, call:
Denmark: 45-69918573 (CHEMTREC)
- Medical emergency: Denmark: +45 82 12 12 12

♣ SECTION 2: HAZARDS IDENTIFICATION

- 2.1. **Classification of the substance or mixture** Acute oral toxicity: Category 4 (H302)
Eye irritation: Category 2 (H319)
Toxic to reproduction: Category 2 (H361d)
Specific target organ toxicity - repeated exposure: Category 2 (H373)
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 ingestion. Inhalation of aerosol or spray mist is hazardous as well.
- The active ingredient abamectin is suspected of causing birth defects. It is a dangerous poison if swallowed or inhaled. It is harmful in contact with skin. On prolonged exposure the product can cause several serious effects. See section 11.

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Environmental hazards The product is very toxic to aquatic organisms.

2.2. Label elements

According to EU Reg. 1272/2008 as amended

Product identifier 2069, Abamectin 36 g/l EW
Contains avermectin B1a
Thor 3.6 EW

Hazard pictograms (GHS07, GHS08, GHS09)



Signal word Warning

Hazard statements

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H373 May cause damage to nervous system through prolonged or repeated exposure.
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.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing and eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

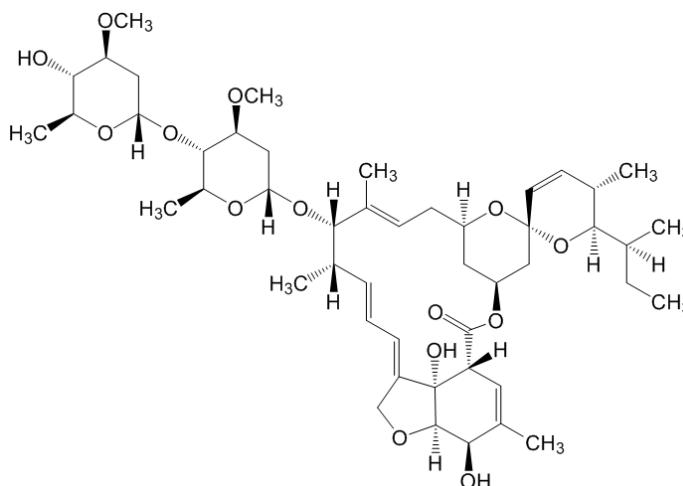
Abamectin Content: 4% w/w
CAS name Avermectin A1a, 5-O-demethyl-
CAS no. 65195-55-3
IUPAC name (10*E*,14*E*,16*E*,22*Z*)-(1*R*,4*S*,5'*S*,6*S*,6'*R*,8*R*,12*S*,13*S*,20*R*,21*R*,24*S*)-= 6'-[(*S*)-*sec*-butyl]-21,24-dihydroxy-5',11,13,22-tetramethyl-2-oxo-3,7,19-trioxatetracyclo[15.6.1.1^{4,8}.0^{20,24}]pentacosa-10,14,16,22-= tetraene-6-spiro-2'-(5',6'-dihydro-2'*H*-pyran)-12-yl 2,6-dideoxy-4-= *O*-(2,6-dideoxy-3-*O*-methyl- α -L-*arabino*-hexopyranosyl)-3-*O*-= methyl- α -L-*arabino*-hexopyranoside
EC no. (EINECS no.) 265-610-3
EU index no. 606-143-00-0

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Classification of the ingredient

Acute oral toxicity: Category 2 (H300)
 Acute inhalation toxicity: Category 1 (H330)
 Toxic to reproduction: Category 2 (H361d)
 Specific target organ toxicity - repeated exposure: Category 1 (H372)
 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
Octan-1-ol Reg. no. 01-2119486978-10	10	111-87-5	203-917-6	Eye Irrit. 2 (H319)
Ethoxylated propoxylated silicone	6	134180-76-0	None	Acute Tox. 4 (H312) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
Distillates (petroleum), hydrotreated middle	max. 6	64742-46-7	EINECS no.: 265-148-2	Asp. Tox. 1 (H304)
Tristyryl phenol-polyethylene glycol-phosphoric acid	4	114535-82-9	None	Eye Irrit. 2 (H319)
Alcohols, C16-18 and C18-unsatd., ethoxylated	1	68920-66-1	NLP no.: 500-236-9	Skin Irrit. 2 (H315)

♣ SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

In case of exposure, do not wait for symptoms to develop. Immediately start the recommended procedures below.

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

Clothing contaminated with material must be removed immediately

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and all skin washed thoroughly with water and soap. Get medical attention if symptoms develop.

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 immediately.

Ingestion Call a doctor or get medical attention immediately. Make the exposed person rinse mouth and then drink 1 or 2 glasses of water or milk. Induce vomiting only if:

1. A significant amount (more than a mouthful) has been ingested
2. Patient is fully conscious
3. Medical aid is not readily available
4. Time since ingestion is less than one hour.

Let the patient induce vomiting by touching the back of the throat with a finger. If vomiting occurs, take care that vomit does not enter airways. Let the exposed person rinse mouth and drink fluids again.

4.2. **Most important symptoms and effects, both acute and delayed** Exposure causes symptoms of nervous system depression. High doses cause death by respiratory failure.

4.3. **Indication of any immediate medical attention and special treatment needed** If there is any sign of poisoning, call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to an insecticide. Describe his/her condition and the extent of exposure. Immediately remove the exposed person from the area where the product is present. Perform artificial respiration if needed.

It may be helpful to show this safety data sheet to physician.

Notes to physician Abamectin acts as agonist of the GABA (gamma-aminobutyric acid) neurotransmitter in nerve cells.

A specific antidote for exposure to this material is not known. Gastric lavage and/or the administration of activated charcoal can be considered. After decontamination, treatment should be directed at the control of symptoms and the clinical condition.

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 carbon monoxide, carbon dioxide, nitrogen oxides and phosphorus pentoxide.

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.

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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, sealable 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 rubber boots.
- Stop the source of the spill immediately if safe to do so. Keep unprotected persons away from the spill area. Avoid and reduce vapour and mist formation as much as possible.
- 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 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).
- Surface water drains should be covered if appropriate. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, hydrated lime, Fuller's earth or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with much water and industrial detergent. Absorb wash liquid onto absorbent and transfer to 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 8.2. for personal protection.
See section 13 for disposal.

♣ SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling**
- In an industrial environment it is important 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

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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.

Keep all unprotected persons and children away from working area.

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

Persons working with this material for a longer period should be careful to minimise exposure. See section 11. Pregnant women must avoid all work with the product, because it may damage the unborn child.

Do not discharge to the environment. 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

Storage at temperatures not exceeding 35°C is recommended.

Keep in closed, labelled containers in the dark. Protect against strong heat from sunshine or other source.

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 not established for abamectin. An internal value of 0.02 mg abamectin/m³ is recommended by the manufacturer.

**Mineral oil
mist**

ACGIH (USA) TLV

Year

2015 5 mg/m³, inhalable fraction

However, other personal exposure limits defined by local regulations may exist and must be observed.

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Abamectin

DNEL	0.0025 mg/kg bw/day
PNEC, aquatic environment	0.35 ng/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 following precautions are primarily meant for handling of the undiluted product and for preparing the spray solution, but can be recommended for spraying as well.



Respiratory protection

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



Protective gloves

Wear long chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber. The breakthrough times of these materials for the product are unknown. Generally, however, the use of protective gloves will give only partial protection against dermal exposure. Small tears in the gloves and cross-contamination can easily occur. It is recommended to limit the work to be done manually and to change the gloves frequently. Be careful not to touch anything with contaminated gloves. Used gloves should be thrown out and not be reused.



Eye protection

Wear 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	White liquid, opaque
Odour	Slight, aromatic
Odour threshold	Not determined
pH	Undiluted: 6.5 at 25°C 1% aqueous dilution: 6.4 at 25°C
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Abamectin: decomposes 91.4°C

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Evaporation rate	Not determined
Flammability (solid/gas)	Not applicable (liquid)
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Abamectin: $< 1 \times 10^{-5}$ Pa at 25°C
Vapour density	Not determined
Relative density	Not determined
Solubility(ies)	Density: 0.947 g/ml at 20°C Solubility of abamectin at 25°C in:
	octanol 74.3 g/l
	methanol 12.1 g/l
	hexanes 0.00443 g/l
	water 0.00054 g/l (at 20°C)
Partition coefficient n-octanol/water	Abamectin: $\log K_{ow} = 5.5$
Autoignition temperature	354°C
Decomposition temperature	Decomposition of abamectin starts at 60°C.
Viscosity	1.3 Pa.s at 20°C 1.2 Pa.s at 40°C
Explosive properties.....	Not explosive
Oxidising properties	Not oxidising

9.2. Other information

Miscibility	The product can be dispersed in water.
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SECTION 10: STABILITY AND REACTIVITY

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

♣ SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	* = Based on available data, the classification criteria are not met.
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Product

Acute toxicity	The product is expected to be harmful if swallowed. It is less harmful by inhalation or by skin contact, but it may have hazardous effects by these routes as well. The acute toxicity is estimated from data measured on a similar product as:
Route(s) of entry	- ingestion LD ₅₀ , oral, rat: 400 - 1200 mg/kg (method OECD 420)
	- skin LD ₅₀ , dermal, rat: > 2000 mg/kg (method OECD 402) *
	- inhalation LC ₅₀ , inhalation, rat: > 5.0 mg/l/4 h (method OECD 403) * signs of toxicity are expected at this concentration
Skin corrosion/irritation	Not expected to be irritating to skin. *

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Serious eye damage/irritation	Expected to be irritating to eyes.
Respiratory or skin sensitisation ...	Not expected to be sensitising. *
Germ cell mutagenicity	The product contains no ingredients known to be mutagenic. *
Carcinogenicity	The product contains no ingredients known to be carcinogenic. *
Reproductive toxicity	Reduced mating results and birth defects were observed in animal tests with abamectin at maternal toxic doses (3 studies).
STOT – single exposure	To our knowledge, no specific effects have been observed after single exposure. *
STOT – repeated exposure	The following was measured on the active ingredient abamectin: Target organ: primarily nervous system Abamectin has neurotoxic effects at prolonged exposure. In animal studies apathy and general bad condition were noted at dose levels of around 10 mg abamectin/kg bw/day. LOEL, oral: 0.5 mg/kg bw/day in an 18-week dog study (method OECD 409) LOAEC, inhalation: 0.0027 mg/l in a 30-day rat study (6 hrs/day).
Aspiration hazard	The product does not present an aspiration pneumonia hazard. *
Symptoms and effects, acute and delayed	Exposure causes symptoms of nervous system depression, such as pupil dilation, vomiting, excitation, incoordination, tremors, lethargy, coma. High doses cause death by respiratory failure.
<u><i>Abamectin</i></u> Toxicokinetics, metabolism and distribution	Abamectin is rapidly absorbed and excreted with half-live times of one to two days. It is extensively metabolised. Bioaccumulation is not likely. Abamectin and its metabolites are found throughout all organs.
Acute toxicity	The substance is very toxic if swallowed and by inhalation. It is less toxic by skin contact. The acute toxicity is measured as:
Route(s) of entry - ingestion	LD ₅₀ , oral, rat: 8.2 mg/kg (method OECD 401)
- skin	LD ₅₀ , dermal, rat: > 2000 mg/kg (method OECD 402) *
- inhalation	LC ₅₀ , inhalation, rat: 0.031 - 0.051 mg/l/4 h (method OECD 403)
Skin corrosion/irritation	Not irritating to skin (method similar to 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>Octan-1-ol</i></u> Toxicokinetics, metabolism and distribution	Octan-1-ol is rapidly absorbed and extensively metabolised. It is primarily excreted by expiration as carbon dioxide.
Acute toxicity	The substance is not considered as harmful by inhalation, ingestion or skin contact. * The acute toxicity is measured as:

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Route(s) of entry - ingestion LD₅₀, oral, rat: > 3200 mg/kg
 - skin LD₅₀, dermal, guinea pig: > 1000 mg/kg
 - inhalation LC₅₀, inhalation, rat: not available

Skin corrosion/irritation Mildly irritating to skin. *

Serious eye damage/irritation Mildly to moderately irritating to eyes. *

Respiratory or skin sensitisation ... To our knowledge, allergenic effects have not been reported. *

Ethoxylated propoxylated silicone

Acute toxicity The substance is harmful by dermal contact and inhalation. The acute toxicity is measured as:

Route(s) of entry - ingestion LD₅₀, oral, rat: 3200 mg/kg *
 - skin LD₅₀, dermal, rabbit: 1500 mg/kg
 LD₅₀, dermal, rat: > 2000 mg/kg
 - inhalation LC₅₀, inhalation, rat: 1.08 mg/l/4 h (method OECD 403)

Skin corrosion/irritation Slightly irritating to skin. *

Serious eye damage/irritation Severely irritating to eyes.

Respiratory or skin sensitisation ... Not a skin sensitizer. *

Distillates (petroleum), hydrotreated middle

Acute toxicity The substance is not considered as harmful by single exposure. *
 However, harmful effects may occur by inhalation. The acute toxicity is measured as:

Route(s) of entry - ingestion LD₅₀, oral, rat: > 5000 mg/kg (method OECD 401)
 - skin LD₅₀, dermal, rabbit: > 2000 mg/kg
 (measured on a similar product, method OECD 402)
 - inhalation LC₅₀, inhalation, rat: 4.6 mg/l/4 h
 (measured on a similar product, method OECD 403)

Skin corrosion/irritation Irritating to skin (measured on a similar product, method OECD 404).

Serious eye damage/irritation Mildly to moderately irritating to eyes (measured on a similar product, method OECD 405). *

Respiratory or skin sensitisation ... Not sensitising to skin (measured on a similar product, method OECD 406). *

Aspiration hazard The substance presents an aspiration pneumonia hazard.

Tristyryl phenol-polyethylene glycol-phosphoric acid

Acute toxicity The substance is not considered as harmful by inhalation, ingestion or skin contact. * The acute toxicity is measured as:

Route(s) of entry - ingestion LD₅₀, oral, rat: > 2000 mg/kg (method OECD 401)
 - skin LD₅₀, dermal, rat: not determined

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- inhalation	LC ₅₀ , inhalation, rat: not determined
Skin corrosion/irritation	Not irritating to skin (method OECD 404). *
Serious eye damage/irritation	Irritating to eyes (method OECD 405).
Respiratory or skin sensitisation ...	Not determined.
<u>Alcohols, C16-18 and C18-unsatd., ethoxylated</u>	
Skin corrosion/irritation	Irritating to skin.
Other endpoints	No more information is accessible.

SECTION 12: ECOLOGICAL INFORMATION

12.1.	Toxicity	The product is highly toxic to aquatic invertebrates, aquatic life stages of amphibians and insects. It is very toxic to fish and harmful to aquatic plants. It is not considered as harmful to birds and soil macro- and microorganisms.	
	The ecotoxicity as estimated from data on a similar product:		
	- Fish	Rainbow trout (<i>Oncorhynchus mykiss</i>)	96-h LC ₅₀ : 0.14 mg/l
	- Invertebrates	Daphnids (<i>Daphnia magna</i>)	48-h EC ₅₀ : 8.0 µg/l
	- Algae	Green algae (<i>Pseudokirchneriella subcapitata</i>) ...	72-h EC ₅₀ : 57 mg/l
	- Earthworms	<i>Eisenia fetida</i>	14-day LC ₅₀ : > 1000 mg/kg dry soil
	- Insects	Honey bees (<i>Apis mellifera</i> L.)	48-h LC ₅₀ , contact: 0.09 µg/bee 48-h LC ₅₀ , oral: 0.24 µg/bee
12.2.	Persistence and degradability	Abamectin is not readily biodegradable. However, it undergoes degradation in the environment and in waste water treatment plants. Primary degradation half-lives vary with circumstances from 14 to 20 days in different soil types. Abamectin is degraded photochemically in soil and water as well. The product contains minor amounts of not readily biodegradable ingredients which may not be degradable in waste water treatment plants.	
12.3.	Bioaccumulative potential	See section 9 for octanol-water partition coefficients. Abamectin is not expected to bioaccumulate. The Bioconcentration Factor (BCF) was measured to be 54 in zebrafish (<i>Danio rerio</i> ; whole fish).	
12.4.	Mobility in soil	Abamectin is mobile in soil.	
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.	

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♣ 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.
- Disposal of packaging Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
- It is recommended to consider possible ways of disposal in the following order:
1. Reuse or recycling should first be considered. 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** 3082
- 14.2. **UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (abamectin)
- 14.3. **Transport hazard class(es)** 9
- 14.4. **Packing group** III
- 14.5. **Environmental hazards** Marine pollutant
- 14.6. **Special precautions for user** 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 should not be 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 in Annex I to Dir. 2012/18/EU: dangerous for the environment.

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The employer shall assess any risks to the safety or health and any possible effect on the pregnancies or breastfeeding of workers and decide what measures should be taken (Dir. 92/85/EEC).

The Young Worker Directive (94/33/EC) prohibits people under the age of 18 to work with this product.

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

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
Dir.	Directive
DNEL	Derived No Effect Level
EC	European Community
EC ₅₀	50% Effect Concentration
EINECS	European INventory of Existing Commercial Chemical Substances
EW	Emulsion, oil in Water
GHS	Globally Harmonized classification and labelling System of chemicals, Fifth revised edition 2013
IBC	International Bulk Chemical code
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	50% Lethal Concentration
LD ₅₀	50% Lethal Dose
LOAEC	Lowest Observed Adverse Effect Concentration
LOEL	Lowest Observed Effect Level
MARPOL	Set of rules from the International Maritime Organisation (IMO) for prevention of sea pollution
NLP	No Longer Polymer
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
TLV	Threshold Limit Value
vPvB	very Persistent, very Bioaccumulative
WHO	World Health Organisation

References

Data measured on a similar 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: read-across
Eye irritation: calculation rules
Toxic to reproduction: calculation rules

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Product name	2069, ABAMECTIN 36 g/l EW (THOR 3.6 EW)	November 2021

Specific target organ toxicity - repeated exposure: calculation rules
Hazards to the aquatic environment, acute: read-across
chronic: calculation rules

Used hazard statements	H300	Fatal if swallowed.
	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H312	Harmful in contact with skin.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H330	Fatal if inhaled.
	H332	Harmful if inhaled.
	H361d	Suspected of damaging the unborn child.
	H372	Causes damage to nervous system through prolonged or repeated exposure.
	H373	May cause damage to nervous system through prolonged or repeated exposure.
	H400	Very toxic to aquatic life.
	H410	Very toxic to aquatic life with long lasting effects.
	H411	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.
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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 Cheminova A/S may exist. The user has to check the validity of the information under local circumstances.

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