

VOLIAM TARGO

Version 3

Revision Date 16.8.2018

Print Date 16.8.2018

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT INFORMATION

Product name : VOLIAM TARGO

Design code : A15893A

Use : Insecticide

Company : Syngenta Crop Protection AG
Postfach
CH-4002 Basel
Switzerland

Telephone : +41 61 323 11 11

Telefax : +41 61 323 12 12

Emergency telephone : +44 1484 538444

E-mail address : safetydatasheetcoordination@syngenta.com



Dangerous for
the environment



Harmful

2. HAZARDS IDENTIFICATION

Harmful if swallowed.
May be harmful if inhaled.
May cause damage to organs through prolonged or repeated exposure if swallowed.
Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	EC-No. (REACH Registration Number)	Symbol(s)	R-phrase(s)	Concentration
chlorantraniliprole	500008-45-7		N	R50/53	4.3 % W/W
abamectin	71751-41-2, 65195-56-4, 65195-55-3		N, T+	R26/28 R48/25 R50/53	1.7 % W/W
poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]-	90093-37-1, 114535-82-9		Xi	R36	1 - 5 % W/W

VOLIAM TARGO

Version 3

Revision Date 16.8.2018

Print Date 16.8.2018

poly(oxy-1,2-ethanediyl), alpha-[tris(1-phenylethyl)phenyl]-omega-hydroxy-	99734-09-5, 70559-25-0			R52/53	1 - 5 % W/W
1,2-propanediol	57-55-6	200-338-0			10 - 20 % W/W

* Substances for which there are Community workplace exposure limits.
For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

- General advice** : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
- Inhalation** : Move the victim to fresh air.
If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest.
Call a physician or poison control centre immediately.
- Skin contact** : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.
- Symptoms** : Lack of coordination
Tremors
Dilatation of the pupil
- Medical advice** : This material is believed to enhance GABA activity in animals. It is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic mectin exposure.
Toxicity can be minimized by early administration of chemical absorbents (e.g. activated charcoal).
If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged.
Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures as indicated by clinical signs, symptoms and measurements.

VOLIAM TARGO

Version 3

Revision Date 16.8.2018

Print Date 16.8.2018

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam
or
Water spray
- Extinguishing media which shall not be used for safety reasons : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during fire fighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for fire-fighters : Wear full protective clothing and self-contained breathing apparatus.
- Further information : Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Additional advice : If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE**HANDLING**

- Advice on safe handling : No special protective measures against fire required.
Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
For personal protection see section 8.

STORAGE

- Requirements for storage areas and containers : No special storage conditions required.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep out of the reach of children.

VOLIAM TARGO

Version 3

Revision Date 16.8.2018

Print Date 16.8.2018

Keep away from food, drink and animal feedingstuffs.

Other data : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Exposure limit(s)		Type of exposure limit	Source
abamectin	0.02 mg/m ³		8 h TWA	SYNGENTA
1,2-propanediol	10 mg/m ³ 150 ppm 470 mg/m ³	Particulates Total (vapour & particulates)	8 h TWA	UK HSE

ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

If airborne mists or vapors are generated, use local exhaust ventilation controls.

Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTIVE EQUIPMENT

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.
When selecting personal protective equipment, seek appropriate professional advice.
Personal protective equipment should be certified to appropriate standards.

Respiratory protection : No personal respiratory protective equipment normally required.
A particulate filter respirator may be necessary until effective technical measures are installed.

Hand protection : Chemical resistant gloves are not usually required.
Select gloves based on the physical job requirements.

Eye protection : Eye protection is not usually required.
Follow any site specific eye protection policies.

Skin and body protection : No special protective equipment required.
Select skin and body protection based on the physical job requirements.

VOLIAM TARGO

Version 3

Revision Date 16.8.2018

Print Date 16.8.2018

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Form	: liquid
Form	: liquid
Colour	: white
Odour	: like soap, weak
pH	: 6.6 at 1 % w/v (25 °C)
Flash point	: > 102 °C
Autoignition temperature	: 535 °C
Oxidizing properties	: not oxidizing
Explosive properties	: Not explosive
Density	: 1.05 g/ml

10. STABILITY AND REACTIVITY

Hazardous decomposition products	: Combustion or thermal decomposition will evolve toxic and irritant vapors.
Hazardous reactions	: None known. Hazardous polymerisation does not occur. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 female Rat, 550 mg/kg GHS-Classification Category 4
Acute inhalation toxicity	: LC50 male and female Rat, > 3.394 mg/l, 4 h GHS-Classification Category 5
Acute dermal toxicity	: LD50 male and female Rat, > 5,000 mg/kg GHS-Classification None
Skin irritation	: Rabbit: Non-irritating GHS-Classification None
Eye irritation	: Rabbit: Non-irritating GHS-Classification None
Sensitisation	: guinea pig: Not a skin sensitizer in animal tests. GHS-Classification None
Long term toxicity chlorantraniliprole	: Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

VOLIAM TARGO

Version 3

Revision Date 16.8.2018

Print Date 16.8.2018

abamectin	: Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments. Reproductive toxicity noted in rats that is not relevant to humans.
	: Central nervous system effects in chronic/subchronic animal tests.

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

Biodegradability

chlorantraniliprole : Not readily biodegradable.

abamectin : Not readily biodegradable.

Stability in water

abamectin : Degradation half life: 1.7 d
Abamectin is not persistent in water.

Stability in soil

abamectin : Degradation half life : 12 - 52 d
Abamectin is not persistent in soil.

Mobility

abamectin : Abamectin has slight mobility in soil.

Bioaccumulation

chlorantraniliprole : Does not bioaccumulate.

abamectin : Abamectin does not bioaccumulate.

ECOTOXICITY EFFECTS

Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout), 0.21 mg/l , 96 h
GHS-Classification
Category 1

Toxicity to daphnia and other aquatic invertebrates. : EC50 *Daphnia magna* (Water flea), 6 µg/l , 48 h
GHS-Classification
Category 1

Toxicity to algae : EbC50 *Pseudokirchneriella subcapitata* (green algae), 36 mg/l , 96 h
: ErC50 *Pseudokirchneriella subcapitata* (green algae), > 100 mg/l , 96 h
GHS-Classification
None

13. DISPOSAL CONSIDERATIONS

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.

VOLIAM TARGO

Version 3

Revision Date 16.8.2018

Print Date 16.8.2018

Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

Land transport

ADR:
UN-Number: 3082
Class: 9
Labels: 9
Packaging group: III
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORANTRANILIPROLE AND ABAMECTIN)
Environmentally hazardous: Environmentally hazardous

Sea transport

IMDG:
UN-Number: 3082
Class: 9
Labels: 9
Packaging group: III
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORANTRANILIPROLE AND ABAMECTIN)
Marine pollutant : Marine pollutant

Air transport

IATA-DGR:
UN/ID No.: UN 3082
Class: 9
Labels: 9
Packaging group: III
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CHLORANTRANILIPROLE AND ABAMECTIN)

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazardous components which must be listed on the label:

- abamectin

Symbol(s)	:	N	Dangerous for the environment
		Xn	Harmful

VOLIAM TARGO

Version 3

Revision Date 16.8.2018

Print Date 16.8.2018

R-phrases(s)	:	R22 R48/22 R50/53	Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
--------------	---	-----------------------------	--

S-phrases(s)	:	S 2 S13 S20/21 S35 S57	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Use appropriate container to avoid environmental contamination.
--------------	---	--	---

Note	:	The product is classified and labelled in accordance with Directive 1999/45/EC.
------	---	---

Special labelling of certain mixtures	:	To avoid risks to man and the environment, comply with the instructions for use.
---------------------------------------	---	--

GHS-Labeling

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Pictogram



Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed. H333 May be harmful if inhaled. H373 May cause damage to organs through prolonged or repeated exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P102 Keep out of reach of children. P270 Do not eat, drink or smoke when using this product. P314 Get medical advice/attention if you feel unwell. P391 Collect spillage. P501 Dispose of contents/container to an approved waste disposal plant.

VOLIAM TARGO

Version 3

Revision Date 16.8.2018

Print Date 16.8.2018

Remarks : Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories.

Hazardous components which must be listed on the label:

- abamectin

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 3:

R26/28	Very toxic by inhalation and if swallowed.
R36	Irritating to eyes.
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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

Product names are a trademark or registered trademark of a Syngenta Group Company.