



Chemical and Agricultural Industry, Research S.A.

SAFETY DATA SHEET

BACTOIL® SC

According to Annex II of the Regulation 1907/2006 EC as amended by the Regulation No 453/2010EC
Revision: 1-2-2017

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Identification of the Product

Designation	Insecticide
Trade name	BACTOIL® SC

1.2 Product use

Product Use	Microbial insecticide
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1.3 Company details

Manufacturer PROBELTE S.A CTRA MADRID KM 384.6 POLIGONIO INDUSTRIAL EL TIPO ESPINADO MURCIA SPAIN	Tel: 968-307250
	Fax 968-305432
	E-mail probelte@probelte.es

Distributor Vioryl s.a. 28 th km Athens-Lamia National Road,19014 Afidnes, GREECE	Tel. +30 22950-45100
	Fax +30 22950 45250
	Email agrochemical@vioryl.gr

1.4 Emergency telephone number: In case of poisoning call: +30 210 7793777

2. HAZARDS IDENTIFICATION

2.1 Classification

Classification according to Directive 67/548/EC, the Directive 1999/45/EC and the Regulation (EC) 1272/2008 : Not regulated as hazardous material.

2.2 Labeling

According to Regulation (EC) 1272/2008:

P phrases:

P102: Keep out of reach of children.

P405: Store locked up.

P270: Do not eat, drink or smoke when using this product.

P262: Do not get in eyes, on skin, or on clothing.

P301+P312: IF SWALLOWED: Call a POISON CENTER or consult a doctor if you feel unwell

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Composition

Composition :	%	EC classification
<i>Bacillus thuringiensis</i> var. kurstaki	12 000 IU/mg equivalent with 6 % d-endotoxin (v/w)	--

4. FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

Skin: Wash skin with water and soap.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air.

5. FIRE-FIGHTING MEASURES

5.1 If product is not directly involved in the Fire

Use the best means available to extinguish the Fire.

5.2 If product is involved in the Fire

This material may burn, but will not ignite readily. If container is not properly cooled, it may explode in the heat of a fire. Vapors are heavier than air and may accumulate in low areas. When strongly heated it can melt and decompose giving off toxic fumes.

Unusual Fire and Explosion Hazards: none

Extinguishing Media: Use water, foam, carbon dioxide, or dry chemical to extinguish fires.

Special Firefighting Procedures: Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

6. ACCIDENTAL RELEASE MEASURES

SPILLAGES: Ensure suitable personal protection during removal of spillages. Large spillages should be dammed-off and pumped into containers; soak up remainder with absorbent material and dispose of in accordance with local regulations. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Do not flush to sewer!

UNCONTROLLED DISCHARGE: Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulations.

7. HANDLING AND STORAGE

7.1 Handling

Read the label before use. Avoid all contact by mouth. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking. Do not contaminate water, food, or feeds by storage or disposal.

7.2 Storage

Store in cool, dry, well ventilated, secure area out of reach of children and animals. Keep in original containers, tightly closed. Keep away from food, drink and animal feeding stuffs, protect from frost. **STORAGE LIFE:** 2 years minimum.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Occupational exposure limits No specific official limits.

8.2 Precautionary and engineering measures

Avoid high mists concentration and provide ventilation where necessary.

8.3 Personal Protection

Wear suitable gloves when handling the product over long periods (neoprene, PVC or equivalent). Wear goggles or safety glasses.

After handling product, wash hands and observe good hygiene practice.

If vapors present, use approved respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance</i>	Liquid suspension
<i>Colour</i>	Light brown
<i>Odor</i>	Protein
<i>pH</i>	4.75
<i>Explosive properties</i>	Not explosive
<i>Oxidizing properties</i>	Not classed as an oxidizing material
<i>Specific gravity</i>	1.26 Kg/dm ³ .
<i>Solubility</i>	Readily soluble

10. STABILITY AND REACTIVITY

10.1 Stability

Stable at normal conditions of storage and use

10.2 Conditions to avoid

Contamination by incompatible materials. Intense heat and direct sunlight

10.3 Materials to avoid: not available

10.4 Hazardous polymerization: Will not occur

10.5 Hazardous Decomposition Products:

Toxic fumes may occur

11. TOXICOLOGICAL INFORMATION

11.1 General: See Section 3.1.

11.2 Toxicity Data

Oral: LD50 > 5000 mg/kg in rats.

Dermal: LD50 > 300 mg/kg in rats.

Inhalation: Not toxic

12. ECOLOGICAL INFORMATION

12.1 Mobility

Potential for mobility in soils is not very high. No other data available.

12.2 Persistence/Degradability

BREAKDOWN OF CHEMICAL IN SOIL AND GROUNDWATER: *Bacillus thuringiensis var. kurstaki* is a naturally occurring pathogen that readily breaks down in the environment. Due to its short biological half-life and its specificity, *Bacillus thuringiensis var. kurstaki* is less likely than chemical pesticides to cause field resistance in target insects. *Bacillus thuringiensis var. kurstaki* is moderately persistent in soil. Its half-life in suitable conditions is about 4 months. *Bacillus thuringiensis var. kurstaki* spores are released into the soil from decomposing dead insects after they have been killed by it. *Bacillus thuringiensis var. kurstaki* is rapidly inactivated in soils that have a pH below 5.1. Microbial pesticides such as *Bacillus thuringiensis var. kurstaki* are classified as immobile because they do not move, or leach, with groundwater. Because of their rapid biological breakdown and low toxicity, they pose no threat to groundwater.

12.3 Bio-accumulation

The product is not expected to accumulate in living organisms.

12.4 Ecotoxicity

ANIMALS: In animals, cleavage to glucose and an amine residue occurs

TOXICITY FOR FISH, BIRDS, BEES, DAPHNIA

Birds: In 63-day feeding trials, chickens receiving up to 5.1×10^7 spores/g diet showed no ill effects.

Fish: *Bacillus thuringiensis var. kurstaki* is relatively non-toxic to fish. LC50 (96h, for water gobie (*Pomatoschistus minutus*) is > 400mg/l.

Bees: Not toxic to bees.

13. DISPOSAL CONSIDERATIONS

13.1 General

Large amounts should be incinerated at high temperature in a unit with effluent gas scrubbing. When no incinerator is available, bury in an approved dump, or in an area where there is no risk of contamination of surface or groundwater. Before burying, liberally mix with sodium carbonate crystals, to help neutralize the product, and with soil rich in organic matter. Comply with any local legislation.

14. TRANSPORT INFORMATION

UN classification

Considered non-hazardous material according to the UN Orange Book and following international transport codes: IATA(air), RID (rail), ADR (road) and IMDG (sea).

14.1 Land transport ADR/RID

ADR/RID Class: 0

Danger code (Kemler):

UN number: Not regulated

Packaging group: --

14.2 Maritime transport IMDG

IMDG Class: 0

UN number: Not regulated

Packaging group: --

14.3 Air transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 0

UN number: Not regulated

Packaging group: --

15. REGULATORY INFORMATION

Classification according to the Regulation 1272/2008EC.

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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