

 $\mathbf{ReVok}^{\mathbf{BTK}}$

Last review 23/01/2018

Section 1	Identification of the mixture and	of the Company
1.1	Product identifier	or the company
	Product Name	ReVok ^{BTK}
	Synonyms	Thuricide HPC
1.2	Relevant identified uses of the m	ixture and uses advised against
	Use of the product	Bioinstecticide
	Uses advised against	N/A
1.3	Details of the supplier of the Safe	ty Data Sheet
	Supplier	Sylvar Technologies Inc.
	Address	1350 Regent Street
		Fredericton, New Brunswick Canada E3C 2G6
	Phone	+1 (506) 444-5690
	E-mail	info@sylvar.ca
1.4	Emergency Telephone Number	
	Phone (medical)	1-888-870-6444
Section 2	Hazards Identification	
2.1	Classification of the mixture	
		Not Classified; No hazardous components
2.2	Label elements	
		IN THE CASE OF EYE CONTACT: Rinse cautiously with water for
		several minutes. Removing existing contact lenses if possible.
		Continue rinsing.
		Keep out of the reach of children.
		Store locked up.
		To avoid risks to human health and the environment, comply with the
		instructions for use.
		Contains Bacullis thuringensis subspecies kurstaki spores. May produce
an		allergic reaction.
		Potential Sensitizer; avoid breathing vapors or spray mist
2.2	Other hazards	CAUTION – Eye irritant
2.3	Other hazards	This mixture does not contain any substances, which are persistent,
		bioaccumulative and toxic (PBT).
		This mixture does not contain any substance which are very persistent,
		and bioaccumulative (vPvB).
		and bloaceumdiative (vi vb).
Section 3	Composition/Information on Ing	redients
3.1	Substances	
		This product is a mixture
3.2	Mixtures	
		Bacullis thuringensis subspecies kurstaki strain SA-12 spores in a carrier.
		No hazardous component.
Section 4	First Aid Measures	
4.1	Description of first aid measures	



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	General Notes	Change any contaminated or wetted clothing at once. If poisoning occurs contact a doctor. Have product container or label when seeking treatment.
	Following Inhalation	Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure. Treat symptomatically is advised.
	Following skin contact	Remove contaminated clothing. Seek medical advice if irritation develops. Wash clothes before reuse. After contact with skin, wash immediately with plenty of water.
	Following eye contact	Rinse thoroughly with plenty of water for several minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Remove contact lenses after first 5 minutes of rinsing, continue rinsing.
	Following ingestion	No typical symptoms and affects known
	Advice to physician	Treat symptomatically
4.2	Most important symptoms and e	ffect, both acute and delayed
		No typical symptoms and effects known.
4.3	Indication of any immediate med	ical attention and special treatment needed.
		None

Section 5	Firefighting measures	
5.1	Extinguishing media	
	Suitable extinguishing media	None specified
	Unsuitable extinguishing media	None specified
5.2	Special hazards arising from the	mixture
		Carbon monoxide, carbon dioxide
5.3	Advice for firefighters	
		None

Section 6	Accidental release measures	
6.1	Personal precautions, protective e	equipment and emergency procedures
		Use protective clothing, gloves, safety goggles and boots. Do not inhale.
6.2	Environmental precautions	
		Prevent entry into drains, waters, sewages, etc. of the product; contact immediately the municipal technical management if the product enters such bodies.
6.3	Methods and material for contain	ment and cleaning up
		For small spills soak up with kitty litter or a similar absorbent material. Place into a sealed container and dispose of according to Federal and provincial laws.
6.4	Reference to other sections	
		See personal protective equipment under Section 8 of SDS.



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Section 7 Handling and Storage

7.1 Precautions for safe handling

The usual precautions for handling chemicals should be observed. Ensure adequate ventilation when handling. Respiratory protection is recommended. Avoid contact with eyes or clothing. Avoid breathing in vapors or spray mist.

7.2 Conditions for safe storage, including any incompatibilities

Must be stored under cool, dry conditions. Activity may be impaired by

storage at temperatures above 32°C.

7.3 Specific end use(s)

Bioinsecticide

Section 8 Exposure controls/personal protection

8.1 Control parameter

The usual precautionary measures for handling chemicals should be

observed. Provide adequate ventilation.

8.2 Exposure controls

Eye/Face Protection Use goggles or a face shield Skin Protection Use Protective Clothing

Respirator Protection A NIOSH approved mist filtering mask or respirator with any N-95, P-95

or R-95 filter.

Thermal Hazards No specific recommendations

Other information None

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State Liquid
Color Brown
Odor Yeasty

Odor Threshold Not determined

pH 4.8-5.2

Melting point/freezing point Not determined Initial boiling point and boiling Not determined

range

Flash Point Not determined Evaporation Rate Not determined Flammability Not flammable Upper/Lower flammability Not flammable

or explosive limits

Vapor Pressure
Vapor Density
Relative Density
Not determined
8.4 lb./gal.

Solubility(ies) Not determined Partition coefficient: n- Not determined

cotanol/water

Auto-ignition temperature Not determined



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Decomposition temperature
Viscosity
Explosive Properties
Oxidising properties
Not determined
None known
None known

9.2 Other Information

None

Section 10	Stability and Reactivity	
10.1	Reactivity	
		Not reactive
10.2	Chemical stability	
		No decomposition if stored and handled properly. Stable
10.3	Possibility of hazardous reactions	
		None known
10.4	Conditions to avoid	
		None known
10.5	Incompatible materials	
		None known
10.6	Hazardous decomposition produc	ts
		None known

Section 11 Toxicological Information

11.1 Information of toxicological effects

Acute toxicity Not toxicity or infectivity

Skin corrosion/irritation Not toxicity or infectivity but slightly irritating.

Serious eye damage/irritation Mildly irritating Respiratory or skin sensitization Not required Germ cell mutagenicity Not determined Carcinogenicity Not applicable Reproductive toxicity Not classified STOT-single exposure Not existing STOT-repeated exposure Not existing Aspiration hazard Not relevant

Section 12 Ecological Information

12.1 Toxicity

Acute (short-term) toxicity

Fish Oncorhynchus mykiss, $LC_{50} > 1x10^8 CFU/mL$ Crustacea Daphnia magna, $EC_{50} > 1x10^8 CFU/mL$

Algae/aquatic plants Not determined

Other organisms Northern Bobwhite, LC₅₀ >3.86x10⁹ CFU/kg body weight

Apis mellifera L, Not active on honey bees

Chronic (long-term) toxicity

Fish Not determined Crustacea Not determined Algae/aquatic plants Not determined



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	Other organisms	Not determined
12.2	Persistence and degradability	
	Abiotic Degradation	Not determined
	Physical and photo-chemical	Bacillus thuringiensis subspecies kurstaki (Btk) show a rapid loss of activity in response to UV light
	elimination	
	Biodegradation	Biodegradables
12.3	Bioaccumulative potential	
	Octanol/water partition coefficient (Kow)	Not determined
	Bioconcentration factor (BCF)	Not determined
12.4	Mobility in Soil	
	Known or predicted distribution to	Low based on scientific data for Btk.
	environmental compartments	
	Surface tension	Not determined
12.5	Absorption/desorption	Not determined
12.5	Results of PBT and vPvB assessme	
		This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
12.6	Other adverse effects	
		None
12.7	Additional information	
		None
Section 13	Disposal considerations	
13.1	Waste treatment methods	
	Product/Packaging disposal	Triple-or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for use. Dispose of the container in accordance with provincial regulations. For information on disposal of unused, unwanted product, contact the supplier or the provincial

Waste treatment-relevant

Other disposal Recommendations

Waste codes/waste designations according to

LoW

information

None

Not applicable

Waste should not be disposed of by release to sewers

agency in cause of a spill, and for clean-up of spills.

regulatory agency. Contact the supplier or the provincial regulatory

None



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Section 14	Transport Information	
	Inland Transportation	Not restricted
	Sea Transportation	Not restricted
	Air Transportation	Not restricted
Section 15	Regulatory Information	
15.1	Safety, health and environmental	regulations/legislation specific for the mixture
	Authorizations	Not relevant
	Restrictions on use	Not relevant
15.2	Chemical Safety Assessment	
		No Chemical Safety Assessment has been carried out for this mixture by the supplier.
Section 16	Other Information	
		This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for their special use of this product.
		complete for their special use of this product.
	Indication of Changes	complete for their special use of this product.
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	Indication of Changes Date of Review	January 23, 2018