

SUMITOMO CHEMICAL AGRO EUROPE S. A. S.

2.1. Classification of the substance or mixture	е
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Not classified as hazardous according to regulation (EC) No 1272/2008 (CLP)				
Signal word(s)	none			
Pictogram (s)	none			
Hazard statement(s)	none			
2.2. Label elements				
Signal word(s)	none			
Pictogram (s)	none			
Hazard statement(s)	none			
Precautionary statement(s)	 P261: Avoid breathing dust. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352: IF ON SKIN: Wash with plenty of water. P363: Wash contaminated clothing before reuse. P501: Dispose of contents/container in accordance with local regulation. EUH 401: To avoid risks to human health and the environment, comply with the instructions for use. 			



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2.3. Othe	r hazards	azards Contains <i>Bacillus thuringiensis</i> , micro-organisms may have a potential to provoke sensitising reactions.					
3. COMP	POSITION/IN	FORM/	ATION ON INGREDIE	NTS			
3.2. This	product is to	be cons	idered as a mixture in	conformance to EU regulations.			
Composi Number 1	tion/Informati ITU/mg 200 (2.8%w/w)	(nain ingredients CAS number NA	Chemical name Bacillus thuringiensis, subsp. israelensis (Strain AM 65-52, Serotype H-14)			
Number	EC number	Annex-1 listing	Regl 1272/2008 Pict.	Hazard statements			
1	/	yes	none	none			
Other inf	ormation	(code ID: ABG-6138				
4. FIRST	AID MEASU	JRES					
Genera Inhalati Skin Eye Ingestic 4.2. Most 4.3. Indic 5. FIRE- 5.1. Extin Suitable	on on important sy	mptoms mmediat EASUR Jia media	In all cases of Move to fresh Remove conta before reuse. Rinse thoroug ensure thoroug Rinse mouth. attention. and effects, both acut Dust may be i May cause an te medical attention an Symptomatic	ghly with plenty of water. Eyelids should be held away from the eyeball to igh rinsing. Seek medical advice if irritation develops. Never induce vomiting in unconscious or confused persons. Seek medical			
5.2. Spec	ial hazards ar	rising fro	om the substance or m Thermal deco	ixture mposition during combustion may evolve toxic and irritant vapours.			
5.3. Advi	ce for fire-figh	nters	Wear self-con protection.	ntained breathing apparatus. Wear suitable protective clothing and eye/face			
Other inf	ormation			Water used to extinguish a fire should not be allowed to enter the drainage system watercourses.			
6. ACCII	DENTAL REI	EASE	MEASURES				
				l emergency procedures			
For non-	r non-emergency personnelDo not breathe dust. Avoid contact with skin.Wear protective gloves, safety goggles or face shield, and suitable protective clothing.						
Data of			00 Andi 0045	(Dete of maximum revisions 20 December 2014, version 2 00)			



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For emergency responders	Remove of ignition sources. Evacuate the danger area. Do not breathe dust. Avoid contact with skin. Wear protective gloves (nitrile), safety goggles or face shield, and suitable protective clothing. Remove of ignition sources. Evacuate the danger area or consult an expert.			
6.2. Environmental precautions	Do not allow to escape into sewage system or water courses. Do not wash residues into drains or other waterways.			
6.3. Methods and material for containment and cleaning up				
Containment of a spill	Do not allow to escape into sewage system or water courses.			
Clean-up procedures	Clean up spills immediately. Sweep up and place into sealable containers. Dig up heavily contaminated soil and place into drums. Use a damp cloth to clean floors and other objects, and also place in sealable container. Dispose of all waste and contaminated clothing in the same manner as waste chemicals (i.e. via an authorized disposal facility). Do not wash residues into drains or other waterways.			
6.4. Reference to other sections	For personal protection see section 8.			
7. HANDLING AND STORAGE				
7.1. Precautions for safe handling Fire and explosion prevention	The usual precautions for handling chemicals should be observed. For personal protection see section 8. No specific recommendations.			
7.2. Conditions for safe storage, inclue Storage requirements	Store in a dry and cool place. Keep container in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Do not drink, eat and smoke in work areas.			
Other information	Do not mix with water (except for the normal preparation).			
7.3. Specific end use(s)	see label on the container.			
8. EXPOSURE CONTROLS/PERSO	NAL PROTECTION			
8.1. Control parameters	There is no national exposure limit for this product. No chemical safety report is required for this kind of product.			
8.2. Exposure controls				
Appropriate engineering controls Individual protection measures Respiratory Hand Eye Skin and body Other information	Provide adequate ventilation. In case of dust formation, use dust mask. Wear protective gloves of nitrile Wear safety goggles or face shield. Wear suitable protective clothing. Launder clothes before reuse.			

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties





SAFETY DATA SHEET According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010 Bacillus thuringiensis, subsp. israelensis 200 GR Reference Refer

Ref. Bti200GRbioCLP/EU/310gb

Name	Bacillus thuringiensis, subsp. israelensis, 200 ITU/mg granule			
Appearance	solid (granule) (Visual assessment)			
Dust content	nearly dust free (0.05 mg dust/30 g product);			
	attrition resistance: 99.7% (CIPAC MT178)			
Colour	Ochre (Visual assessment)			
Odour	characteristic odour of fermentation products (Olfactory assessment)			
Odour threshold	not determined			
pH value	5.4 (10% slurry in water)			
Melting point/freezing point	not applicable			
Initial boiling point & boiling range	not applicable			
•••••••••••••••••••••••••••••••••••••••	not applicable			
Flash point Evaporation rate	not applicable			
Flammability	not flammable (based on the characteristics of the active substance and ingredients)			
Upper/lower flammability or explosive				
M	not determined			
Vapour pressure	not applicable			
Vapour density	not applicable			
Relative density	0.48 g/ml			
Bulk density	not applicable			
Solubility in water	suspends and partially soluble in water			
Solubility in other solvents	not applicable			
Partition coefficient n-octanol/water	not applicable			
Autoignition temperature	not determined (unlikely based on the characteristics of the active substance and			
	ingredients)			
Decomposition temperature	not determined			
Dynamic viscosity	not applicable			
Kinematic viscosity	not applicable			
Explosive properties	not explosive (expert statement)			
Oxidising properties	not determined			
9.2. Other information				
Relative vapour density (air = 1)	not applicable			
Surface tension not applicable				
10. STABILITY AND REACTIVITY				
10.1. Reactivity	Stable under recommended storage and handling conditions (see also section 7).			
10.2. Chemical stability	Stable under recommended storage and handling conditions (see section 7).			
10.2 Dessibility of barandaria scatter	•			
10.3. Possibility of hazardous reaction				
	None known			
10.4. Conditions to avoid	Avoid high temperature, light, humidity. Alkalinity inactivates the product.			
10.5. Incompatible materials	Oxidizers.			
10.6. Hazardous decomposition produ	inte			
ro.o. nazaruous decomposition produ	Thermal decomposition during combustion may evolve toxic and irritant vapours. (See also section 5)			

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No experimental toxicological data are available on the preparation as such. The following data are applicable to a close formulation:



Ref. Bti200GRbioCLP/EU/310gb

Name	Bacillus thuringiensis, subsp. israelensis, 3000 ITU/mg water dispersible granules (code ID: ABG6511)		
Acute toxicity			
Oral	LD ₅₀ rat: >5000 mg/kg (OECD 401)		
Dermal	LD_{50} rabbit: > 5000 mg/kg (OECD 402)		
Inhalation	LC ₅₀ rat (4 hours): >0.014 mg/l (nose-only; maximum feasible concentration) (OECD 403)		
Irritation			
Skin	mildly irritating (OECD 404)		
Eye	weakly irritating (OECD 405)		
Sensitization	not sensitizing (Maximisation test) (OECD 406)		
Other toxicological informa	ation		

 Other toxicological information

 The following data are applicable to the ingredient(s) listed below:

 Name
 Active substance, Bacillus thuringiensis, subsp. israelensis (Strain AM 65-52, Serotype H-14) technical grade

Genotoxicity: No validated methods available for microorganisms.

Current available studies for skin sensitisation assessment are not appropriate for micro-organisms. Consequently products containing microbials are required to carry a precautionary phrase but are not classified R43/H317. Therefore, based on the available data no classification criteria are met for any of the hazard classes.

Information on likely routes of exposure

The most probable routes of exposure are via skin or inhalation.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No experimental ecotoxicological data are available on the preparation as such. The following data are applicable to a close formulation:

Name	Bacillus thuringiensis, subsp. israelensis, 3000 ITU/mg water dispersible granules (code ID: ABG6511)			
Fish	Acute toxicity, 96-h LC ₅₀ (Oncorhynchus mykiss): > 1000 mg/l (OECD 203)			
Bees	Acute toxicity, 48h-LD ₅₀ (<i>Apis mellifera</i>): oral >108.04 µg/bee (OECD 213)			
2000	contact > 100 μ g/bee (OECD 214)			
The following data are applicable to	the ingredient(s) listed below:			
Name	Active substance, Bacillus thuringiensis, subsp. israelensis (Strain AM 65-52,			
	Serotype H-14) technical grade			
Fish	Acute toxicity, 96-h LC50 (Oncorhynchus mykiss): > 370 mg/l (EPA-660/3-75-009)			
	(<i>Lepomis macrochirus</i>): > 600 mg/l (EPA-660/3-75-009)			
Daphnia	Acute toxicity, 10d-LC50 (Daphnia magna): > 50 mg/l (OPPTS 885-4240)			
-	Chronic toxicity, 21-d (<i>Daphnia magna</i>): NOEC = 5 mg/l (OECD 211)			
Bees	Acute oral toxicity, 14d-LD50 (Apis mellifera): >1737 µg/bee (> 10x the field rate)			
	(US EPA 154A-24)			
Birds	Acute toxicity, 5d-LC50 (Bobwhite quail): > 3077 mg/kg (FIFRA 154A-16)			
	(Mallard duck): > 3077 mg/kg (FIFRA 154A-16)			
Earthworm	Acute toxicity, 30d-LC ₅₀ (<i>Eisenia foetida</i>): > 1000 mg/kg dry soil. (OECD 207)			
Soil micro organism	No bactericidal neither antibiotic activity has been detected.			
12.2. Persistence and degradabili				

The following data are applicable to the ingredient(s) listed below: Name Active substance, Bacillus thuringiensis, subsp. israelensis (Strain AM 65-52, Serotype H-14) technical grade Not applicable.



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Degradation Abiotic	Rapidly degraded in soil when exposed to light.						
12.3. Bioaccumulative potential The following data are applicable to the in Name Bioaccumulation	e following data are applicable to the ingredient(s) listed below: me Active substance, Bacillus thuringiensis, subsp. israelensis (Strain AM 65-52, Serotype H-14) technical grade						
12.4. Mobility in soil The following data are applicable to the in Name	obility in soil owing data are applicable to the ingredient(s) listed below: Active substance, Bacillus thuringiensis, subsp. israelensis (Strain AM 65-52, Serotype H-14) technical grade Adsorption K _{Foc} values: not applicable for microbial substances Desorption K _{Foc-des} values: not applicable for microbial substances Bacillus thuringiensis is rapidly bound to clay particles and will be similarly non-mobile in soil						
12.5. Results of PBT and vPvB assessr	nent not required (no chemical safety report i	required).					
12.6. Other adverse effects	no other known adverse effects on the e						
13. DISPOSAL CONSIDERATIONS							
13.1. Waste treatment methods							
Substance and/or Mixture Contaminated packaging	According to local regulations. For further advice contact manufacturer. According to local regulations.						
14. TRANSPORT INFORMATION							
Land transport ADR/RID, Sea transport	IMO/IMDG, Air transport ICAO-TI/IATA	A-DGR:					
14.1. UN Number	None						
14.2. UN proper shipping name	not relevant						
14.3. Transport hazard class(es)	Land transport ADR/RID class: IMO/IMDG code class: Air transport ICAO-TI/IATA-DGR class:	Not restricted Not restricted Not restricted	label:	Not relevant			
14.4. Packing group	Not relevant						
14.5. Environmental hazards	Marine pollutant: no						
14.6. Special precautions for user	EMS: Not relevant no other special precaution required.						
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the ICB Code not applicable							

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture



Ref. Bti200GRbioCLP/EU/310gb

There is no specific regulation/legislation for this mixture.

15.2. Chemical safety assessment

No chemical safety assessment is required for this mixture.

16. OTHER INFORMATION

Method for evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 used for the purpose of classification:

Classification based on the properties of the active substance and a close formulation.

Changes made to the previous version: sections nos 2, 3, 4, 11, were modified to remove any reference to directives 2001/59/EC or 1999/45/EC, add changes due to ATP4 and information about skin sensitisation assessment.

Full text of hazard statement(s) used in this document: none

This information only concerns the above mentioned product for the specific use mentioned and is not valid for such product used in combination with any other product. The information is to our best knowledge correct and complete and is given in good faith as of the date indicated. It is the user's responsibility to use this information as appropriate for his own particular use of this product.