



REFERENCE :  
I1136ab IL en

UPDATING  
INDICE :  
01

DATE :  
14/11/2017

### Carpovirusine SC

Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by Regulation (EU) n° 453/2010

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier  
1.2. Relevant identified uses of the substance or mixture and uses advised against

**Carpovirusine SC**  
Biological insecticide

- 1.3. Details of the supplier of the safety data sheet

Natural Plant Protection (N.P.P.)  
SAS Arysta LifeScience Group  
Parc d'Activités Pau-Pyrénées  
35 avenue Léon Blum  
64000 PAU - France  
Tel: + 33 (0)5 59 84 10 45  
Fax: + 33 (0)5 59 71 78 10

Contact : [fds@goemar.com](mailto:fds@goemar.com)  
Site web: <http://www.goemar.com>

- 1.4. Emergency telephone number

Toxico vigilance + 33 (0)2.99.19.19.19 (business hours).  
Transport accident + 33 (0)2.99.19.19.19 (business hours).  
Treatment center for poisoning cases + 33 (0)1.40.05.48.48 (Paris)


Other emergency numbers /

## SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture

### Classification according to Regulation 1272/2008/EC and national regulations

Physical and chemical hazards /  
Health hazards Contains CpGV, may have the potential to produce sensitizing reactions  
Environmental Hazards /

	REFERENCE : I1136ab IL en	UPDATING INDICE : 01	DATE : 14/11/2017
	<b>Carpovirusine SC</b> Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by Regulation (EU) n° 453/2010		

## \*2.2. Label elements

### Labelling according to Regulation 1272/2008/EC

Hazard statement(s)	EUH401 : To avoid risks to human health and the environment, comply with the instructions for use.
Hazard pictogram(s)	/
Signal word	/
Precautionary statement(s)	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P363: Wash contaminated clothing before reuse. P501: Dispose of contents/container in accordance with local regulation.
SP phrase (s)	SP1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads).

## 2.3. Others hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

/

### 3.2. Mixture

Chemical name and REACH registration No.	EC No.	CAS No.	Classification	Concentration	
			Regulation (EC) 1272/2008	%	g/L
<i>Cydia pomonella</i> granulosus virus, Mexican isolate	/	/	/		Min 1.10 <sup>13</sup> GV/L
Propylene carbonate	203-572	108-32-7	Eye irrit.2 H319	>1	> 10 g/L

For the complete text of R phrases and H statements, please refer to section 16.



REFERENCE :  
I1136ab IL en

UPDATING  
INDICE :  
01

DATE :  
14/11/2017

**Carpovirusine SC**

Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by Regulation (EU) n° 453/2010

**SECTION 4: First aid measures**

4.1. Description of first aid measures

In general	Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from chilling. Do not administer anything by oral route and do not try to make vomit, call a treatment center for poisoning cases or a doctor. Take the label where possible.
After Inhalation	Immediately remove to fresh air. Call a doctor immediately.
After eye contact	Rinse immediately and thoroughly with plenty of water during at least 10 to 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if pain or redness persists.
After skin contact	Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.
After Ingestion	Call a doctor immediately and show the label. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

No specific symptoms

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

**SECTION 5: Fire-fighting measures**

5.1. Extinguishing media	Suitable: Water spray, dry chemical powder. Unsuitable: Water jet.
5.2. Special hazards arising from the substance or mixture	By thermal decomposition, possibility of formation of toxic gases (sulfur oxide, phosphorus oxide, nitrogen oxide, carbon oxide, chlorides).
5.3. Advice for fire-fighters	Intervention personnel should wear mask and individual respiratory equipment. Retain water or extinguishing media and eliminate safely.

**SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures	Wear protective adapted equipment and take back non protected people. Withdrawal combustion and ignition sources and block bringing in oxygen (ventilation).
6.2. Environmental precautions	Avoid sewage, surface water, ground water and soil contamination.

\* paragraph modified at last update



REFERENCE :  
I1136ab IL en

UPDATING  
INDICE :  
01

DATE :  
14/11/2017

### Carpovirusine SC

Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by Regulation (EU) n° 453/2010

Retain spilled liquids and collect them with sand or other absorbent inert material (sepiolite).  
Absorbent inert material stocks have to be sufficient to face reasonably predictable spillage.  
Keep sewers from potential spillage to minimize pollution hazards.  
Do not throw washing waters into sewers.  
Contact competent authorities when a situation cannot be controlled rapidly and efficiently.  
In the case of spillage into water, stop dispersion of the product with adequate barrier.

#### 6.3. Methods and material for containment and cleaning up

Collect contaminated products on the surface concerned, transfer to closed drums before sending in a specialized incineration treatment centre.  
Wash the contaminated surface with water and collect washing waters for treatment.  
Cover the contaminated zone using absorbent materials such as sand or sepiolite.  
See section 8 for personal protection and section 13 for disposal considerations.

#### 6.4. Reference to other sections

/

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Do not eat, drink or smoke when using.  
Wear appropriate protective clothes, adequate gloves (nitril), glasses or mask.  
Avoid all contact of skin, eyes or clothes with new or old product.  
Respect good hygienic body conditions and cleanliness of the working area.  
Wash hands abundantly after handling.  
Do not wash working clothes with household linen.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feedingstuffs.  
Store in a well closed container, in a fresh and well ventilated place.  
To prevent fires and explosions: rags soaked with product, paper, or materials used to absorb spillage may cause fire. Avoid accumulation of these rags. Eliminate them safely immediately after using.  
The product must be kept frozen (-18°C) for long period storage (at least 2 years following manufacturing date).  
Thaw at least 1 day before the treatment at ambient temperature.  
The product can be frozen several times.  
Out of the freezer, it can be kept in the refrigerator or cold room (+4°C) for maximum 8 months, or at room temperature for maximum 1 month (not exceeding 25°C)  
Keep away from food, drink and animal feeding stuffs.

#### 7.3. Specific end uses

/

## SECTION 8: Exposure controls/personal protection

\* paragraph modified at last update



REFERENCE :  
I1136ab IL en

UPDATING  
INDICE :  
01

DATE :  
14/11/2017

**Carpovirusine SC**

Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by Regulation (EU) n° 453/2010

8.1. Control parameters	Not defined
8.2. Exposure control	
General measures	When using refer in priority to information written on the label.
Control of professional exposure	
Respiratory protection	Preferably wear a mask covering all face with filter appropriate to organic vapor, powder or aerosol. A.P. Type filters.
Hand protection	Wear single-use gloves of good quality.
Eyes protection	Preferably wear a mask, a face screen or protective glasses.
Skin protection	Wear appropriate protective clothes, covering all parts of the body.
Control of environment exposure	Respect European and National Regulations in term of environment.

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Appearance	Red aqueous suspension
Odour	Characteristic sweet odour
pH	4.5
Boiling point / range	Not applicable
Flash point	> 100°C
Flammability	Not flammable Auto-ignition temperature: 505°C
Explosives properties	Risks of explosion almost none in the recommended conditions of storage see point 7. Real risk in case of fire or accumulation of the emanations
Combustives properties	Not available
Vapour pressure	Not available
Relative density	1.020 ± 0.01
Solubility	
- Water	Miscible with water in all proportions. Gives stable suspension.
- Organic solvents	Slightly soluble in organic solvents.
Hydrosolubility	Not available
n-octanol/water coefficient	Not applicable
Viscosity	43 mPa.s at a shear rate of 100 s <sup>-1</sup> and 152 mPa.s at a shear rate of 10s <sup>-1</sup>
Vapour density	Not applicable
Evaporation rate	Not applicable

9.2. Other information /

**SECTION 10: Stability and reactivity**

10.1. Reactivity /

\* paragraph modified at last update

**Carpovirusine SC**

Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by Regulation (EU) n° 453/2010

10.2. Chemical stability	Not appropriate.
10.3. Possibility of hazardous reactions	See point 5.
10.4. Conditions to avoid	Avoid storage at warm temperature. Store in an intended fridge at 4°C for a use in a short term after the manufacturing date. In case of subsequent treatment and longer storage, keep product frozen.
10.5. Incompatible materials	Avoid contact with strong oxidant and strong reducing agent.
10.6. Hazardous decomposition products	See point 5.

**SECTION 11: Toxicological information**

Hazard classes<sup>1</sup> /

Acute toxicity

by ingestion (rat)	LD <sub>50</sub> > 2000 mg/kg
by skin contact (rat)	LD <sub>50</sub> > 2000 mg/kg
by inhalation (rat)	No acute inhalation toxicity expected
Skin irritation (rabbit)	Not irritating
Eye irritation (rabbit)	Not irritating
Skin sensitization (guinea-pig)	Sensitizing

Subchronic toxicity

CpGV: no effect on mice (5.10<sup>11</sup> GV/animal/day for 99 days)

Chronic toxicity

Carcinogenicity

CpGV: no carcinogenicity effect

Teratology

CpGV: no teratogenic effect on reproduction

Toxicity to reproduction /

Mutagenicity effects

No increase of chromosome aberration or sister chromatid exchange was observed after acute or chronic infection with CpGV

Other /

**SECTION 12: Ecological information**

12.1. Toxicity

Aquatic organisms	Fishes	Acute (96h)	LC <sub>50</sub> <i>Brachydanio rerio</i> > 250 mg/L
		Chronic	NOEC <i>Brachydanio rerio</i> = 100 mg/L
	Daphnids	Acute (48h)	EC <sub>50</sub> <i>Daphnia magna</i> > 250 mg/L
		Chronic	/

<sup>1</sup> As defined in Regulation (EC) 1272/2008

\* paragraph modified at last update

**Carpovirusine SC**

Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by Regulation (EU) n° 453/2010

	Algae	Acute (72h) Chronic	EC <sub>r50</sub> and EC <sub>b50</sub> <i>Pseudokirchneriella subcapitata</i> > 100 mg/L NOEC <sub>r and b</sub> <i>Pseudokirchneriella subcapitata</i> > 100 mg/L
	Aquatic plants	Acute (7d)	Not available
Terrestrial organisms	Birds	Short-term Reproduction	LD <sub>50</sub> <i>Colinus virginianus</i> = 10 000 mg/kg/day, i.e. 1 X 10 <sup>11</sup> GV/ Kg bw/day NOEC <i>Colinus virginianus</i> = 10 000 mg/kg/day, i.e. 1 X 10 <sup>11</sup> GV/ Kg bw/day
	Bees	Oral (48h) Contact (48h)	LD <sub>50</sub> > 108.4 µg/bee LD <sub>50</sub> > 100 µg/bee
	Earthworms	Acute Chronic	LD <sub>50</sub> <i>Eisenia fetida</i> > 1000 mg/kg soil NOEC <i>Eisenia fetida</i> > 1000 mg/kg soil
	Micro-organisms		No impact on soil micro-organisms
12.2.	Persistence and degradability		CpGV is inactivated by UV rays.
12.3.	Bioaccumulative potential		CpGV can survive several years in the soil; however, about 99 % of the original activity of the viruses is lost during the year following application.
12.4.	Mobility in soil		/
12.5.	Results of PBT and vPvB assessment		Neither a PBT nor a vPvB
12.6.	Other adverse effects		/

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Product/packaging

Disposal of important amounts must be made by duly authorized specialists.  
Incineration should be made in authorized and specialized plant.  
Eliminate the product and its packaging with care and in a responsible way.  
Do not throw near ponds, rivers, ditches or into sewers.  
Wash contaminated surfaces with water and collect washing waters for treatment.  
Make sure that local Regulations are respected.

Washing products

Do not throw into sewer. Do not contaminate natural waters.



REFERENCE :  
I1136ab IL en

UPDATING  
INDICE :  
01

DATE :  
14/11/2017

**Carpovirusine SC**

Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by Regulation (EU) n° 453/2010

Clean up application materials on the treated area and eliminate waters by spraying on one area.

**SECTION 14: Transport information**

Regulation	RID/ADR (Terrestrial)	IMDG (Maritime)	OACI/IATA (Aerial)
UN code	<b><u>Not subjected to transport regulation</u></b>		
Class			
Specific point / code			
Packing group			
Environmental hazard classes			
Wording			

**SECTION 15: Regulatory information**

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

**Labelling according to Regulation 1272/2008/EC**


Hazard statement(s)	EUH401 : To avoid risks to human health and the environment, comply with the instructions for use.
Hazard pictogram(s)	/
Signal word	/
Precautionary statement(s)	P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P363: Wash contaminated clothing before reuse. P501: Dispose of contents/container in accordance with local regulation.
SP phrase (s)	SP1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads).
Other mentions Other information	Contains CpGV, may have the potential to produce sensitizing reactions Storage information (ICPE) : 1510 (French regulation)

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

\* paragraph modified at last update



	REFERENCE :	UPDATING INDICE :	DATE :
	I1136ab IL en	01	14/11/2017
<b>Carpovirusine SC</b> Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by Regulation (EU) n° 453/2010			

## SECTION 16: Other information

### Full text of R-Phrases, H-phrases, hazard statements, P-phrases and precautionary statements referred to in this SDS following Reg. 1272/2008/CE as amended:

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

P501: Dispose of contents/container in accordance with local regulation.

### Other information

Contains CpGV, may have the potential to produce sensitizing reactions.

This data sheet was prepared in accordance with Regulation (EU) 453/2010/EC.

This MSDS completes technical use sheets but does not replace them. Information herein is based on our present knowledge concerning the product, at the edition date. It is honestly given.  
The attention of users is drawn to potential risks taken when the product is used for other uses than those for which it is made.  
The user has to know and comply with all regulations concerning its activity.  
It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.  
The aim of all the regulations mentioned is to help the person concerned to comply with the rules which are his own responsibility. This listing cannot be considered as exhaustive. The person concerned has to make sure that he has no other obligations due to texts specific to particular applications.