



REFERENCE :
POLLINUS (EN)

UPDATING
INDICE :
01

DATE :
05/01/2015

POLLINUS

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

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

- 1.1. Product identifier **POLLINUS**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Pollination enhancer for bees and bumblebees
- 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
Web Site: <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 **ORFILA number (INRS): + 33 (0)1 45 42 59 59**
Free medical advice (except the cost of call), **24 hours a day, 7 days a week.**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture


Classification according to Regulation (EC) 1272/2008

Physical and chemical hazards	/
Health hazards	Causes serious eye damage Causes skin irritation May cause an allergic skin reaction
Environmental hazards	/

Classification according to Directive 99/45/EC and national regulations

Physical and chemical hazards	/
Health hazards	Harmful by inhalation Irritating to the eyes and skin May cause sensitization by skin contact
Environmental hazards	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

* paragraph modified at last update

 <p>NATURAL PLANT PROTECTION</p>	REFERENCE : POLLINUS (EN)	UPDATING INDICE : 01	DATE : 05/01/2015
	<p align="center">POLLINUS</p> <p align="center">Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by the Annex II of Regulation (EU) n° 453/2010</p>		

2.2. Label elements

1/ Labelling according to Regulation (EC) 1272/2008



Signal word(s)	Danger
Hazard class(es) and category(ies)	Serious eye damage, category 1 Skin sensitization, category 1 Skin irritation, category 2
Hazard statement(s)	H315: Causes skin irritation H317: May cause an allergic skin reaction H318: Causes serious eye damage
Precautionary statements	P102: Keep out of reach of children P260: Do not breathe dust/fume/gas/mist/vapours/spray P262: Do not get in eyes, on skin, or on clothing P280: Wear protective gloves/protective clothing/eye protection/face protection P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P302+352: IF ON SKIN: Wash with soap and water P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

2.3. Others hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1. Substance

Chemical identification	EC No.	CAS No.
/	/	/



REFERENCE :
POLLINUS (EN)

UPDATING
INDICE :
01

DATE :
05/01/2015

POLLINUS

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

3.2. Mixture

Emulsifiable concentrate (EC)

Chemical name and REACH registration No	EC No.	CAS No	Classification Directive 99/45/EC	Classification Regulation (EC) 1272/2008	Concentration (%)	Concentration (g/L or g/kg)
Mixture of terpenic compounds			Xi R38 – R41 – R43	Skin Sens. 1 - H317 Skin irrit. 1 - H315 Eye Damage 1 - H318	25-50%	400-500 g/L
Geraniol	203-225-4	104-67-6	Xi- R38 – R41 – R43	Skin Irrit. 2 - H315 Eye Dam. 1 - H318	30-60%	
Citral	226-394-6	5392-40-5	Xi – R38 – R43	Skin Sens. 1 - H317 Skin Irrit. 2 - H315 Skin Sens. 1 - H317	10-30%	
Anethol	224-052-0	40180-23-8	Xi – R43	Skin Sens. 1 H317	1-10%	
Linalool	201-134-4	78-70-6	Xi – R43	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	1-10%	
Adjuvant			Xi R10 – R38 – R41	Flam. Liq. 3 - H226 Skin irritation 2 – H315 Eye Dam. 1 - H318	1,0-8,0%	10-30 g/L
Acide benzene sulfonique REACH No.: 01-2119560592-37-XXXX	932-231-6	90194-26-6	Xi R38 - R41	Skin Irrit. 2 H315 Eye Dam. 1 H318	10-20%	
Iso-butanol REACH No.: 01-2119484609-23-XXXX	201-148-0	78-83-1	Xi R10 - R37/38 - R41 - R67	Flam. Liq. 3 H226 STOT SE 3 H335 Skin Irrit. 2 H315 Eye Dam. 1 H318	5%-10%	


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

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 centre 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.

* paragraph modified at last update

 <p>NATURAL PLANT PROTECTION</p>	<p>REFERENCE : POLLINUS (EN)</p>	<p>UPDATING INDICE : 01</p>	<p>DATE : 05/01/2015</p>
	<p align="center">POLLINUS</p> <p align="center">Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by the Annex II of Regulation (EU) n° 453/2010</p>		

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, foam, 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 (nitrogen oxide, carbon oxide). |
| 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.
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. |
| 6.4. Reference to other sections | See section 8 for personal protection and section 13 for disposal considerations. |

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. |
|------------------------------------|--|

* paragraph modified at last update

	REFERENCE : POLLINUS (EN)	UPDATING INDICE : 01	DATE : 05/01/2015
	POLLINUS Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by the Annex II of Regulation (EU) n° 453/2010		

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 Store in a well closed container, in a fresh and well ventilated place.
Store under cover, in an appropriate room, away from heat and sources of fire, at temperature <35°C.
Keep away from food, drink and animal feedingstuffs
Do not store in room at temperature below -5°C.

7.3. Specific end uses /

SECTION 8: Exposure controls/personal protection

8.1. Control parameters Not on the substances list of INRS ED 984.

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 vapour or aerosol. (P2 or P3 filters).

Hand protection Wear impermeable gloves, resistant to organic solvents and to chemical products Wear gloves, certified for chemical protection according to the reference standard EN 374-3

Eyes protection Wear a mask or face screen or protective glasses EN 166.

Skin protection Wear coveralls (coat cotton / polyester (35% / 65% - weight of at least 230 g/m²)

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	White milky liquid
Odour	Aromatic
pH	4.5 (5% in deionised water)
Melting point/freezing point	Not available
Boiling point / range	Not available
Flash point	Not available
Flammability	Not available
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	None
Vapour pressure	Not available
Relative density	0.910 ± 0.02 g/cm ³

* paragraph modified at last update



REFERENCE :
POLLINUS (EN)

UPDATING
INDICE :
01

DATE :
05/01/2015

POLLINUS

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

Solubility

- Water
- Organic solvents

Miscible with water in all proportions. Gives stable emulsion
Miscible with almost all organic solvents

Hydrosolubility

n-octanol/water coefficient

Not available

Not available

Viscosity

Vapour density

Not available

Not available

Evaporation rate

Not available

Decomposition temperature

Not available

Auto-ignition temperature

Not available

9.2. Other information

/

SECTION 10: Stability and reactivity

10.1. Reactivity

/

10.2. Chemical stability

The product is chemically neutral towards all liquids.

10.3. Possibility of hazardous reactions

/

10.4. Conditions to avoid

Avoid storage at temperature > 35°C in a confined place.

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 classes¹

Not relevant for mixtures

Acute toxicity

by ingestion (rat)

Not available

by skin contact (rat)

Not available

by inhalation (rat)

Not available

Skin irritation (rabbit)

Not available

Eye irritation (rabbit)

Not available

Skin sensitization

Not available

Subchronic toxicity

Not available

Chronic toxicity

Carcinogenicity

Not available

Teratology

Not available

Toxicity to reproduction

Not available

Mutagenicity effects

Not available

Other

/

SECTION 12: Ecological information

¹ As defined in Regulation (EC) 1272/2008

* paragraph modified at last update



REFERENCE :
POLLINUS (EN)

UPDATING
INDICE :
01

DATE :
05/01/2015

POLLINUS

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

12.1. Toxicity

Aquatic organisms	Fishes (<i>Onchorynchus mykiss</i>)	31 d fish Chronic	Not available Not available
	Daphnids (<i>Daphna magna</i>)	Acute (21d) Chronic (21d)	Not available Not available
	Algae (<i>P. subcapitata</i>)	Acute (72h) Chronic	Not available Not available
	Aquatic plants	Acute (7d)	Not available
Terrestrial organisms	Birds (<i>5-day gavage study</i>)	Acute Short-term Reproduction	Not available Not available
	Bees	Oral Contact	Not available Not available
	Earthworms	Acute Chronic	Not available Not available
	Micro-organisms		Not available

12.2. Persistence and degradability

POLLINUS is intrinsically biodegradable

12.3. Bioaccumulative potential

Nothing to prove that the product is bioaccumulable

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

This mixture doesn't have any PBT or vPvB substance according REACH regulation criteria, annex XIII.

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

	REFERENCE : POLLINUS (EN)	UPDATING INDICE : 01	DATE : 05/01/2015
	POLLINUS Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by the Annex II of Regulation (EU) n° 453/2010		

SECTION 14: Transport information

NOT REGULATED FOR TRANSPORT

SECTION 15: Regulatory information

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

Information regarding relevant Community safety, health and environmental provisions : None
National information on the regulatory status of the substance or mixture : /

Other prescriptions

To avoid risks to man and the environment, comply with the instructions for use (Directive 1999/45/EC, Article 10, n° 12).

Storage classification (ICPE) : 1510

15.2. Chemical safety assessment

Any Chemical Safety Assessment has been carried out for this mixture.

This mixture is registered as a plant protection product under 91/414/EC directive, replaced by Regulation (EC) No. 1107/2009.

Refer to the label for exposure assessment information.

SECTION 16: Other information

Labelling according to Directive 99/45/EC:



Xn: Harmful



N: Dangerous for the environment


Hazard statement

R20: Harmful by inhalation
R36/37/38: Irritating to eyes, respiratory system and skin
R43: May cause sensitization by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Precautionary statement

S2: Keep out of the reach of children
S13: Keep away from food, drink and animal feedingstuffs
S24/25 : Avoid contact with skin and eyes
S36 : Wear suitable protective clothing
S45 : In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
S56: Dispose of this material and its container at hazardous or special waste collection point

* paragraph modified at last update

 <p>NATURAL PLANT PROTECTION</p>	<p>REFERENCE : POLLINUS (EN)</p>	<p>UPDATING INDICE : 01</p>	<p>DATE : 05/01/2015</p>
	<p align="center">POLLINUS</p> <p align="center">Material Safety Data Sheet according to the Annex II of Regulation (EC) n°1907/2006 R.E.A.C.h, modified by the Annex II of Regulation (EU) n° 453/2010</p>		

R statements full text of dangerous substances according to the 67/548/CE directive (written in section 3)

R37/38: Irritating to respiratory system and skin
R38: Irritating to skin
R41: Risk of serious damage to eyes
R43: May cause sensitisation by skin contact
R67: Vapours may cause drowsiness and dizziness

H statements full text of dangerous substances according to the CLP/GHS classification (written in section 3)

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H319: Causes serious eye irritation
H226: Flammable liquid and vapour
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness

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.