

SAFETY DATA SHEET

072002M7

I - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

NAME OF THE PRODUCT	VACCIPLANT AMM n°2020021
Use Standard denomination	Agriculture - Stimulant of defence reactions (fungal diseases) SL (soluble concentrate) for foliar spraying
SUPPLIER Manufacturer	Laboratoires GOËMAR Z.A.C. la Madeleine - Avenue du Général Patton 35418 SAINT MALO cedex - FRANCE Phone : +33.(0)2.99.21.53.70. Fax : +33.(0)2.99.82.56.17.
EMERGENCY TELEPHONE	ORFILA ANTI-POISON CENTER (Rennes) +33.(0)1.45.42.59.59. +33.(0)2.99.59.22.22.

II - COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION - chemical nature	Aqueous formulation based on seaweed extract.
Components involved in the hazards	denomination / CAS n° / EC n° % w/w classification none
Components presenting a hazard	surfactant < 10% (supp.) Xi, R41 preservative < 1% (supp.) Xn, R22-41 preservative < 1% (supp.) Xi, R36
Additional information	both preservatives are permitted for use as food additives

III - HAZARDS IDENTIFICATION

MAIN HAZARDS	The preparation is not classified as dangerous.
Adverse physico-chemical effects Adverse human health effects Adverse environmental effects Additional information	Do not release the product into draining system or in the environment.

IV - FIRST AID MEASURES

IN CASE OF :	
Eye contact	Flush immediately with plenty of water for 15 mn. In case of persistent irritation, ask the advice of an ophthalmologist .
Skin contact	Take off dirty clothes. Rinse skin with plenty of water.
Ingestion	Wash out mouth with water. Do not give to drink. Do not induce vomiting. If necessary seek medical advice, and show this SDS, or for lack, the label.
Inhalation	Not specifically concerned (aqueous liquid). Remove from the contaminated area and bring to fresh air.
Collective emergency means	Eyes shower. Safety shower.

V - FIRE FIGHTING MEASURES	
Suitable extinguishing media Unsuitable extinguishing media Specific hazards Precautions Protective equipment	All extinguishing agents usable (water, foam, powders, CO ₂ , ...) depending on products stored close by Evacuate the place. Fight fire in early stage ONLY IF SAFE to do so. Provide for holding contaminated water. Professional fire-fighters only : use a self-contained breathing apparatus.
VI - ACCIDENTAL RELEASE MEASURES	
Personal precautions Environmental precautions Methods for cleaning up	Avoid contact with eyes and skin. Use Personal Protective Equipments proposed hereafter. Limit and impound discharge. Prevent entry into drains, waters or soil. Avert authorities. Do not water down. Collect with a neutral absorbent material and sweep it . Do not reintroduce into original container ; treat as waste.
VII - HANDLING AND STORAGE	
HANDLING Precautions for use STORAGE Technical measures Conditions of storage Packaging	For personal protective equipments, see point 8 for details. Avoid accidental dispersion and spatter. Do not eat, drink or smoke when handling the product. Wash hands with water after handling. Recommended limit height of stacking : 2 pallets Store out of frost (-10°C) and if possible in a cool place. Store away from children, domestic animals, food, drink and animal feedingstuffs. Keep the product into original container labelled and closed.
VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION	
Technical measures Exposure limit values Monitoring procedures PPE : Personal Protection Equipments Respiratory protection Hand protection Eye protection Skin and body protection Hygiene measures Environmental protection	Work in the open air. Medical examination yearly. The product doesn't require specific measures. Respect general rules for handling of chemical products : Mask recommended while spraying the mixture. Protective gloves, such as latex, PVC, rubber. Safety goggles. Protective clothing, such as overall. Wash hands with water after handling the product. Do not eat or drink during the handling. Rinse the containers with water and pour rinsing water into spraying tank.

IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance : physical state, colour	soluble concentrate, orange to brown colour, cloudy
Odour	sweet
pH	3,6 - 4,1 (pure product)
Characteristic temperatures :	
Solidification	> -20°C
Boiling point	Not determined (aqueous solution)
Flash point	Not applicable (aqueous solution)
Auto-ignition temperature	Not applicable (no flammable component)
Oxidising properties	Not applicable (no oxidising component)
Explosive properties	Not applicable (no explosive component)
Relative density (water = 1)	1,047 - 1,062
Solubility	Totally soluble in water in all proportions
Viscosity	Not determined / ... mPa.s (centipoises)
Vapour density	Not applicable (no volatile component)
Evaporation rate	Not applicable (no volatile component)

X - STABILITY AND REACTIVITY

Stability	The product is stable in normal conditions of use.
Hazardous reactions	
Conditions to avoid	No hazardous reaction known in normal conditions of use.
Materials to avoid	none
Hazardous decomposition products	

XI - TOXICOLOGICAL INFORMATION

Acute toxicity / Local effects	(experimental data on mammals)
Ingestion	LD50 (oral, rat) > 2000 mg/kg
Eye contact	Non-irritant for the eye of the rabbit.
Skin contact	LD50 (dermal, rat) > 2000 mg/kg Non-irritant for the skin of the rabbit.
Inhalation	Not available.
Sensitisation	No sensitising potential in the Guinea-pig.
Chronic / long-term toxicity	
Specific effects	No long-term or specific effects concerning the active substance.

XII - ECOLOGICAL INFORMATION

	(bibliographical data)
Ecotoxicity	
Effects on aquatic organisms	Due to the low toxicity of the active substance, and to the low concentrations of the formulants, no study has been conducted on the preparation.
Effects on terrestrial organisms	
Effects on terrestrial flora/fauna	
Mobility	
Volatility	vapour pressure : not applicable (no volatile component)
Adsorption/desorption	partition coefficient n-octanol/water : not determined
Precipitation	
Surface tension	surface-active
Persistence and degradability	No adverse effect expected on sewage plants working.
Abiotic degradation	
Biodegradability	Due to the easy biodegradability of the active substance and of the formulants, no study has been conducted on the preparation.
Bioaccumulation	
Other adverse effects	

XIII - DISPOSAL CONSIDERATIONS	
Residues waste Destruction / disposal Contaminated packaging Decontamination / cleaning Destruction / disposal	Do not empty into drains. Dispose of in authorised waste collection plant. Rinse with water and pour into the spraying tank. Dispose of rinsed plastic packagings and cardboard in an authorised plant (incineration or recycling).
XIV - TRANSPORT INFORMATION	
International regulations Road (ADR) Rail (RID) Sea (IMDG) Air (OACI/IATA)	<p style="color: teal;">The preparation does not contain any substance concerned.</p>
XV - REGULATORY INFORMATION	
CE LABELLING Symbol of danger Special risks (R sentences) Safety advice (S sentences) Other information	<p style="color: teal;">None</p> <p style="color: teal;">None</p> <p style="color: teal;">S2 : keep out of the reach of children. S13 : keep away from food, drink and animal feedingstuffs. S20/21 : when using do not eat, drink or smoke.</p> <p style="color: teal;">None.</p>
XVI - AUTRES INFORMATIONS	
BIBLIOGRAPHICAL REFERENCES For communal regulation For data For transport # symbol points out a modification with regard to the previous sheet.	written following ISO Norm 11014-1 Directive 91/155/EEC modified. Directive 1999/45/EC modified. Directive 67/548/EEC modified. Suppliers data Company in-house data Experimental results ADR-RTMDR 2001
<p><i>N .B. : This sheet completes the technical leaflet but doesn't replace it. The information written here above are based on our relative knowledge of the concerned product, at the time of writing this safety data sheet. They are honestly written. A list of the main regulation, legislation and administrative texts can be joined to this sheet as indication. The use of the product for other purposes than those indicated on the label may present a risk.</i></p>	