

# ARAMIS

Version 2 /ENG

Revision date: 15.07.2021

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

### **1.1. Product identifier:**

**Trade name:** ARAMIS

**Product code:** ARAM

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use:** Fungicide

### **Details of the supplier of the safety data sheet**

**Company:** NOROFERT SA

Street LT. AV. Șerban Petrescu, No. 20, Sector 1, Bucharest, Romania

Phone: +40766 080 767

**E-mail address of the person responsible for SDS:** [office@norofert.ro](mailto:office@norofert.ro)

### **1.3. The phone number that can be called in case of emergency:**

NOROFERT SA – 0727034308 or Toxicological Information Centre: Bucharest Public Health Institute Tel: 021 3183606 or 021 3183620/ext 235 (Monday-Friday 8:00-15:00)

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## **SECTION 2: HAZARDS IDENTIFICATION**

### **2.1. Classification of the substance or mixture**

#### **According to Regulation (EC) No 1272/2008**

It is not classified; it does not meet the conditions for classification.

### **2.2 Label elements**

#### **According to Regulation (EC) No 1272/2008**

#### **Danger phrases:**

Not applicable

#### **Precautionary phrases:**

P501 – Dispose of contents/container in accordance with national/international regulations

### **2.3. Other hazards**

This mixture does not contain components considered to be bioaccumulative and toxic (PBT).

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**SECTION 3: Composition/Information on Ingredients****3.1 Active substance**

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical nature**

Soluble concentrate

IUPAC name	EC	CAS	Conc. %, g/kg, g/l	Classification Cf. Reg. (EC) no. 1272/2008
Azospirillum lipoferum	917-385-4	Unassigned	5X10 <sup>-7</sup> cfu / ml	Unrated
Oil mineral white	232-455-8	8042-47-5	5%	Unrated
Bacillus licheniformis FMCH001	Unassigned	Unassigned	1X10 <sup>-4</sup> cfu /ml	Unrated
Bacillus amyloliquefaciens FZB 42	Unassigned	Unassigned	1X10 <sup>-4</sup> cfu /ml	Unrated
Bacillus subtilis IAB/BS03	Unassigned	Unassigned	1X10 <sup>-4</sup> cfu /ml	Unrated
Trichoderma harzianum T22	Unassigned	Unassigned	1X10 <sup>-4</sup> cfu /ml	Unrated

**Inert material:**

IUPAC name	EC	CAS	Conc. %, g/kg, g/l	Classification Cf. Reg. (EC) no. 1272/2008
Glycerol	200-289-5	56-81-5	20%	Unrated

**SECTION 4: First-Aid Measures****4.1 Description of first aid measure****General indications**

Keep the product container, label or safety data sheet in case you consult a doctor.

**If inhaled**

It will go out into the fresh air. The person will be put to bed and kept warm. If symptoms persist, consult a doctor.

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<b>On skin contact</b>	Contaminated clothing will be removed immediately. Wash off immediately with plenty of soap and water. If irritation persists, call a doctor.
<b>On contact with eyes</b>	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. An immediate medical examination is required.
<b>On ingestion</b>	Vomiting will not be induced. It will rinse the mouth very well. A doctor will be notified immediately.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
Symptoms	Not known
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
Treatment	No specific antidote is known. It will be treated symptomatically.

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### SECTION 5: Firefighting Measures

#### 5.1 Extinguishing media:

Suitable	Water spray, foam, Carbon dioxide
Not suitable	Powerful water spray

#### 5.2 Special hazards arising from the substance or mixture

Specific risks during firefighting: The product is not flammable under normal conditions. Decomposition and combustion products of the mixture may be toxic - carbon oxides, nitrogen oxides.

#### 5.3 Advice for firefighters

Special protective equipment	- Full protective equipment and self-contained breathing apparatus will be worn
Additional information	Contaminated extinguishing water shall be prevented from entering the sewage system and running water. Firefighting is done against the wind. Closed containers located near sources of fire will be cooled by spraying with water jets.

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### SECTION 6: Accidental Release Measures

#### 6.1 Personal precautions, protective equipment, and emergency procedures

Precautionary measures	Personal protective equipment will be used. Avoid contact with spilled product or contaminated surfaces. Adequate ventilation shall be provided. Personnel will be evacuated to safe places.
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### **6.2 Environmental precautions**

Do not discharge into drains/surface waters/groundwater.

The product will be used according to the instructions on the label.

### **6.3 Methods and material for fire containment and cleaning**

Cleaning methods            It will be absorbed with an inert absorbent material (eg sand, silica gel, universal binder, sawdust). The product will be collected and stored in a tightly closed and airtight container. The contaminated surface will be carefully cleaned. Contaminated wash water shall be conserved and disposed of.

Additional observations    Never put the spilled product back into the packaging for reuse.

### **6.4 Reference to other sections**

Information on personal protective equipment, see SECTION 8.

Information on waste disposal, see SECTION 13

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## **SECTION 7: Handling and Storage**

### **7.1 Precautions for safe handling**

Advices for safe handling

- When handling closed packages/containers, no special precautions are necessary, the general rules regarding the handling of packages will be observed.

Fire and explosion protection measures

- No special precautions are required

Hygiene measures    Remove personal protective equipment (PPE) used immediately after working with this product. Remove contaminated clothing immediately and clean thoroughly before reuse. Always wash your hands thoroughly with soap and water before and after eating, after drinking, after chewing gum, smoking, using the toilet or cosmetics.

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

Requirements for storage spaces and containers

- Store in a dry, cool and well-ventilated place accessible only to authorized personnel. It shall be protected from direct sunlight and protected from frost.

Protective measures in case of joint storage with other materials

- Segregate from foods and animal feeds.

Stability during storage

- Storage temperature 5°C – 25°C

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### **7.3 Specific end use(s)**

The indications on the label and those in the instructions will be followed

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

It does not contain substances with occupational exposure limit values.

### **8.2 Exposure controls**

#### **Personal protective equipment**

Respiratory protection	In the anticipated exposure conditions, no individual respiratory equipment is required. Respiratory protection should be worn for short-term exposures to avoid any secondary risk, after all measures have been taken to reduce exposure at the source, e.g. isolation and/or ventilation with air extraction. Always follow the manufacturer's instructions for use and maintenance of respiratory equipment. A particle filter mask (protection factor 20) according to EN149FFP3 or EN140P3 or equivalent shall be worn.
Hand protection	Suitable gloves, resistant from a chemical point of view (EN 374) and to prolonged contact (Recommended: protection index 6, corresponds to > 480 minutes penetration time, according to EN 374): e.g. nitrile rubber (0.4 mm), chlorprenic rubber (0.5 mm), butyl rubber (0.7 mm) and others.
Eye protection	Safety glasses with side shields (EN 166)
Body protection	Body protection must be chosen according to the activity and possible exposure. For example: apron, protective boots, protective overalls (according to EN 14605 in the case of splashes or EN ISO 13982 in the case of dust).
Hygiene measures	The contaminated clothes and gloves will be removed and washed, inside and out, before reuse. Wash your hands before breaks and immediately after handling the product. Do not eat, do not drink, and do not smoke when handling the product.
Protection measures	It is recommended to wear work equipment with long sleeves. Store work equipment separately. Keep away from food, drink or animal food.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Form	soluble concentrate
Color	brown
Odor	specific
Odor threshold	No data available
PH	8-10
Melting point/boiling range	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Flammability	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Density (20°C)	1.056 ± 0.1
Solubility in water	Soluble
The n-octanol/water partition Coeff	No data available
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Particle characteristics	No data available
Oxidizing properties	No data available
Explosion hazard	Not explosive
Evaporation rate	No data available
9.2 Other information	No other data available

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### SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

The product is stable under normal conditions of use/handling and storage.

### 10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated

**10.3 Possibility of hazardous reactions** No data available

### 10.4 Conditions to avoid

Protection from extreme temperatures and direct sunlight.

**10.5 Incompatible materials** Unknown

### 10.6 Hazardous decomposition products

Under the influence of high temperature, carbon and nitrogen oxides can be released.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute oral toxicity:	LD50 rat Dosage: > 3000 mg/kg
Acute inhalation toxicity	This is not the case as the product is a concentrated suspension
Acute dermal toxicity	LD50 rat Dosage: > 2000 mg/kg
Skin Corrosion/Irritation	Does not irritate the skin
Serious eye damage/irritation	Does not irritate the eyes
Respiratory or skin sensitization	Not sensitizing
STOT – Specific target organ toxicity – single exposure	No data available
STOT – Specific target organ toxicity – single exposure	No data available
Mutagenicity assessment	Test not required for microorganisms
Assessment of carcinogenicity	Test not required for microorganisms
Reproductive toxicity assessment	Test not required for microorganisms

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<b>Developmental toxicity assessment</b>	Test not required for microorganisms
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<b>Inhalation hazard</b>	No data available
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**11.2 Information regarding other hazards**

Endocrine disrupting property	No data available
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**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

- Aquatic toxicity (acute)	No data available
- Aquatic toxicity (chronical)	No data available
- Daphnia toxicity	No data available
- Toxicity to algae/aquatic plants	No data available

**12.2 Persistence and degradability**

<b>Biodegradation</b>	Not relevant for microorganisms
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**12.3 Bioaccumulative potential**

<b>Bioaccumulation</b>	Not relevant for microorganisms
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<b>12.4 Mobility in soil</b>	No data available
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<b>12.5 Results of PBT and vPvB assessment</b>	This mixture does not contain any substance considered to be persistent, bioaccumulative and toxic (PBT)
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<b>12.6 Endocrine disrupting properties</b>	No data available
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<b>12.7 Other adverse effects</b>	No data available
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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

<b>Product:</b>	Do not contaminate waterways, waterways or ditches with the product or used containers. Waste will not be disposed of down the drain. Where recycling is possible, this is preferred over disposal or incineration. If recycling is not possible, it will be disposed of in accordance with local regulations.
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<b>Contaminated packaging</b>	The rest of the content will be emptied. The containers must be washed 3 times. Empty containers must be taken to an authorized waste handling facility for recycling and disposal.
<b>Waste code</b>	uncleaned packaging  15.01.10 packaging containing residues of dangerous substances or contaminated with dangerous substances or contaminated with dangerous substances
<b>Legislation</b>	Emergency Ordinance 92/2021 regarding the waste regime  GD 856/2002 regarding waste management records and for the approval of the list including waste, including hazardous waste  Law 249/2015 regarding the management of packaging and packaging waste

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### SECTION 14: TRANSPORT INFORMATION

According to ADN/ADR/RID/IATA this product is not classified as dangerous

**14.1 – 14.5** Not applicable

**14.6 Special precautions for users** No data available

**14.7 Shipping in bulk under IMO instruments**

Not applicable to products like the one supplied

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### SECTION 15: REGULATORY INFORMATION

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

REACH - Restrictions on the production, placing on the market and use of certain dangerous substances, preparations, and articles (Annex XVII): Not applicable

REACH - List of candidate substances of particular concern for authorization (Article 59):  
Not applicable

REACH - List of substances subject to authorization (Annex XIV): Not applicable

Regulation (EC) no. 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (reform): Not applicable

Regulation (EC) no. 649/2012 of the European Parliament and of the Council regarding the export and import of dangerous chemical products: Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable

### 15.2 Chemical Safety Assessment

Chemical Safety Assessment is not required for this substance.

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## SECTION 16: OTHER INFORMATION

### Full text of the H statements

### Full text of other abbreviations

ADN	DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the inland transport of dangerous goods
ADR	European Agreement on the International Carriage of Dangerous Goods by Road
CAS-Nr.	CAS registry number (engl. Chemical Abstracts Service)
Conc.	Concentration EC-No. Number European Community
ECx	The effective concentration for x%
EINECS	European inventory of existing chemicals introduced on the market
ELINCS	European list of notified chemical substances
EN	European standards
ETA	Acute toxicity estimate EU European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	The inhibitory concentration for x%
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration for x%
LDx	Lethal dose for x%
LOEC/LOEL	Minimum observable effect dose
MARPOL	International Convention for the prevention of marine pollution from ships
N.O.S	Not otherwise specified
NOEC/NOEL	Concentration/Dose no observable effect
OCDE	Organization for Economic Cooperation and Development

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OMS	World Health Organization
RID	Regulation on the international transport of dangerous goods by road
TWA	Time weighted average
UN	United Nations

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*This Safety Data Sheet is made in accordance with Regulation (EC) no. 1907/2006 of the European Parliament and of the Council on the registration, evaluation, authorization, and restriction of chemical substances (REACH)*