

Safety Data Sheet

(In accordance with Regulation (EU) 2020/878)

1. IDENTIFICATION OF THE SUBSTANCES/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Specio 00.1 Bacteria SPID

Product code V-SF14

1.2. Relevant information uses of the substances or mixture and uses advised against

Substance application Research use only

1.3. Details of the supplier of the safety data sheet

Company TAAG Technologies S.A.

Address Río Refugio 9641, Pudahuel, Santiago, Metropolitan Region, Chile

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Website www.taag-tech.com

1.4. Emergency telephone number [22 635 3800](tel:226353800)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture In accordance with the Regulation (EC) No 1272/2008:
Asp. Tox. 1: May be fatal if swallowed and enters airways.

2.2. Label elements Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms



Signal word **Danger**

Hazard statements

H304: May be fatal if swallowed and enters airways.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331: Do NOT induce vomiting.

Precautionary statements

P405: Store locked up.

P501: Dispose of contents/container according to local/national legislation.

Contains: White mineral oil (petroleum).

The mixture does not contain substances classified as PBT (Persistent, Bioaccumulable and Toxic).

The mixture does not contain substances classified as vPvB (very Persistent and very Bioaccumulable).

2.3. Other hazards

The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*) Classification – Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and acute toxicity estimate
CAS No: 8042-47-5 EC No: 232-455-8 Registration No: 01-2119487078-27-XXXX	[2] White mineral oil (petroleum)	10 – 50 %	Asp. Tox. 1, H304	-

CAS No: 8002-74-2 EC No: 232-315-6 Registration No: 01-2119488076-30-XXXX	[2] Paraffin waxes and Hydrocarbon waxes	10 – 25 %	-	-
CAS No: 56-81-5 EC No: 200-289-5 Registration No: 01-2119471987-18-XXXX	[2] Glycerol	0 – 2.5 %	-	-

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[2] Substance with national workplace exposure limit (see section 8.1).

4. FIRST AID MEASURES

4.1. Description of first aid measures	In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.
Inhalation	Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.
Eye contact	Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.
Skin contact	Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.
Ingestion	If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.
4.2. Most important symptoms and effects, both acute and delayed	Harmful product, prolonged exposure due to inhalation may cause anesthetic effects and the need for immediate medical assistance.
4.3. Indication of any immediate medical attention and special treatment needed	In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear respiratory tract.

5. FIRE-FIGHTING MEASURES

The product is NOT classified as flammable, in case of fire the following measures should be taken:

5.1. Extinguishing media

Suitable extinguishing media

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2. Special hazards arising from the substance or mixture

Special risks

Exposure to combustion or decomposition products can be harmful to your health.

5.3. Advice for firefighters

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Avoid allowing firefighting products to enter drains, sewer, or waterways.

Fire protection equipment

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For exposure control and individual protection measures, see section 8.

6.2. Environmental precautions

Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) a clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

6.4. Reference to other sections

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

7. HANDLING AND STORAGE

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

7.1. Precautions for safe handling

Follow legislation on occupational health and safety.

Never use pressure to empty containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

Store according to local legislation. Observe indications on the label.

7.2. Conditions for safe storage, including any incompatibilities

Keep far away from ignition points. Keep away from oxidizing agents and from highly acidic or alkaline materials. Do not smoke.

Once the containers are open, they must be carefully closed and places vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3. Specific end use (s)

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
White mineral oil (petroleum)	8042-47-5	Éire [1]	Eight hours		5
			Short term		
Paraffin waxes and Hydrocarbon waxes	8002-74-2	United Kingdom [2]	Eight hours		2
			Short term		6
		Éire [1]	Eight hours		2
			Short term		6
Glycerol	56-81-5	United Kingdom [2]	Eight hours		10
			Short term		
		United States [3] /Cal/OSHA)	Eight hours		10 (Total dust) 5 (Respirable fraction)
			Short term		
		United States [4] (OSHA)	Eight hours		15 (Total dust) 5 (Respirable fraction)
			Short term		

[1] According Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations adopted by Health and Safety Authority (HSA).

[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

[3] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[4] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
Glycerol CAS No: 56-81-5 EC No: 200-289-5	DNEL (Workers)	Inhalation, Chronic, Local effects	56 (mg/m ³)

8.2. Exposure controls

Measures of technical nature

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Breathing protection

PPE: Filter mask for protection against gases and particles.

Characteristics: «CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.



CEN standards: EN ISO 136, EN 140, EN 405.

Maintenance: Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.

Observations: Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: PI-P2-P3, Gases and vapors: A-B-E-K-AX), changing them as advised by the manufacturer.

Filter type needed: A2

Hand protection

PPE: Protective gloves against chemicals.



Characteristics: «CE» marking, category III.

CEN standards: EN 374-1, EN 374-2, EN 374-3, EN 420.

Maintenance: Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.

Observations: Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.

Material: PVC (polyvinyl chlorides); Breakthrough time (min.) >480.
 Material thickness (mm): 0.35

Eye protection

If the product is handled correctly, no individual protection equipment is necessary.

Skin protection

PPE: Protective clothing/ Work footwear.

Characteristics: «CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.

CEN standards: EN 340/ EN ISO 13287, EN 20347

Maintenance: In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the

manufacturer. The footwear adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.

Observations: The protective clothing should offer a level of comfort in line with the level of protection provided in terms of hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use. Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

• Physical state	Liquid.
• Color	Clear.
• Odor	Not applicable/ Not available due to the nature/properties of the product.
• Odor threshold	Not applicable/ Not available due to the nature/properties of the product.
• Melting point	Not applicable/ Not available due to the nature/properties of the product.
• Freezing point	Not applicable/ Not available due to the nature/properties of the product.
• Boiling point or initial boiling point and boiling range	Not applicable/ Not available due to the nature/properties of the product.
• Flammability	Not applicable/ Not available due to the nature/properties of the product.
• Lower explosion limit	Not applicable/ Not available due to the nature/properties of the product.
• Upper explosion limit	Not applicable/ Not available due to the nature/properties of the product.
• Flash point	> 60°C.
• Auto-ignition temperature	Not applicable/ Not available due to the nature/properties of the product.
• Decomposition temperature	Not applicable/ Not available due to the nature/properties of the product.

• pH	Not applicable/ Not available due to the nature/properties of the product.
• Kinematic viscosity	Not applicable/ Not available due to the nature/properties of the product.
• Solubility	Not applicable/ Not available due to the nature/properties of the product.
• Hydrosolubility	Not applicable/ Not available due to the nature/properties of the product.
• Liposolubility	Not applicable/ Not available due to the nature/properties of the product.
• Partition coefficient n-octanol/water (log value)	Not applicable/ Not available due to the nature/properties of the product.
• Vapor pression	Not applicable/ Not available due to the nature/properties of the product.
• Absolut density	Not applicable/ Not available due to the nature/properties of the product.
• Relative density	Not applicable/ Not available due to the nature/properties of the product.
• Relative density	Not applicable/ Not available due to the nature/properties of the product.
• Relative vapor density	Not applicable/ Not available due to the nature/properties of the product.
• Particle characteristics	Not applicable/ Not available due to the nature/properties of the product.
9.2. Other information	Not applicable/ Not available due to the nature/properties of the product.

10. STABILITY AND REACTIVITY

10.1. Reactivity	The product does not present hazards by their reactivity.
10.2. Chemical stability	Stable under recommended handling and storage conditions (see section 7).
10.3. Possibility of dangerous reactions	The product does not present possibility of hazardous reactions.
10.4. Conditions to avoid	Avoid any improper handling.
10.5. Incompatible materials	Keep away from oxidizing agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.
10.6. Hazardous decomposition products	No decomposition if used for the intended uses.

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

	There are no tested data available on the product.
11.1. Information on hazard classes as defined in Regulation (EC) N° 1272/2008	Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.
a) Acute toxicity	Not conclusive data for classification.
b) Skin corrosion/irritation	Not conclusive data for classification.
c) Serious eye damage/irritation	Not conclusive data for classification.
d) Respiratory or skin sensitization	Not conclusive data for classification.
e) Germ cell mutagenicity	Not conclusive data for classification.
f) Carcinogenicity	Not conclusive data for classification.
g) Reproductive toxicity	Not conclusive data for classification.
h) STOT-single exposure	Not conclusive data for classification.
i) STOT-repeated exposure	Not conclusive data for classification.
j) Aspiration hazard	Product classified: Aspiration toxicity, Category 1: May be fatal if swallowed and enters airways.
11.2. Information on other hazards	
Endocrine disrupting properties	This product does not contain components with endocrine-disrupting properties with effects on human health.
Other information	There is no information available on other adverse health effects.
12.1. Toxicity	No information is available regarding the ecotoxicity of the substances present.
12.2. Persistence and degradability	No information is available regarding the biodegradability of the substances present. No information is available on the degradability of the substances present. No information is available about persistence and degradability of the product.
12.3. Bioaccumulative potential	No information is available regarding the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Value
White mineral oil (petroleum) CAS No: 8042-47-5 EC No: 232-455-8	0	-	-	Very low
Glycerol CAS No: 56-81-5 EC No: 200-289-5	-1,76	-	-	Very low

No information is available about the mobility in soil.

12.4. Mobility in soil

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5. Results of PBT and vPvB assessment

No information is available about the results of PBT and vPvB assessment of the product.

12.6. Endocrine disrupting properties

This product doesn't contain components with environment endocrine disrupting properties.

12.7. Other adverse effects

No information is available about other adverse effects for the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

14. TRANSPORT INFORMATION

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1. UN number or ID number

Transportation is not dangerous.

Description:

14.2. UN proper shipping name

ADR/RID: Not classified as hazardous for transport.

IMDG: Not classified as hazardous for transport.

ICAO/IATA: Not classified as hazardous for transport.

14.3. Transport hazard class(es)	Transportation is not dangerous.
14.4. Packing group	Transportation is not dangerous.
14.5. Environmental hazards	Transportation is not dangerous. Transport by ship, Fem – Emergency sheets (F – Fire, S – Spills): Not applicable.
14.6. Special precautions for user	Transportation is not dangerous.
14.7. Maritime transport in bulk according to IMO instruments	Transportation is not dangerous.

15. REGULATORY INFORMATION

European Commission:

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

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

Chile:

NCh382:2017 Dangerous merchandising – Classification

NCh2190:2003 Transportation of hazardous substances – Labels for risk identification.

NCh2245:2015 Safety data sheets for chemical products – Content and order of sections.

NCh1411/4 Risk prevention– Part 4: Safety signs for identification of material risks. (Similar to NFPA 704).

Law 20920 Framework law for waste management, extend producer responsibility, and promotion of recycling.

Supreme decree No.148 Sanitary regulation on the management of hazardous waste.

Supreme decree No.594 Regulation on basic sanitary and environmental conditions in the workplace.

USA:

TSCA Inventory (Toxic Substances Control Act).

15.2. Chemical safety assessment

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

16. OTHER INFORMATION

Complete text of H phrases that appear in section 3:

H304: May be fatal if swallowed and enters airways.

Classification codes:

Asp. Tox. 1: Aspiration toxicity, Category 1

Classification and procedure used to derive the classification for mixtures according to regulation (EC) 1272/2008

[CLP]:

Physical hazards: On basis of test data

Health hazards: Calculation method

Environmental hazard: Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

- BCF: Bioconcentration factor.
- CEN: European Committee for Standardization.
- DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered tolerable minimum.
- DNEL: Derived No Effect, level of exposure to the substance below which adverse effects are not anticipated.
- EC50: Half maximal effective concentration.
- PPE: Personal protection equipment.
- LC50: Lethal concentration, 50%.
- LD50: Lethal dose, 50%.
- NOEC: No observed effect concentration.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and must not be considered as a guarantee of its properties.