

Printing date 09/11/2024

Reviewed on 09/11/2024

* 1 Identification

- **Product identifier**
- **Trade name:** *Various NSI Lab Solutions Microbiological / Microbiology Products*
- **Application of the substance / the mixture** *For Laboratory Use Only*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*NSI Lab Solutions
 860 Aviation Pkwy.
 Suite 700
 Morrisville, NC 27560
 USA*
- **Information department:** *Product safety department*
- **Emergency telephone number:** *During normal opening times: +1 (919) 789-3000*

2 Hazard(s) identification

- **Classification of the substance or mixture**
This substance is not hazardous as defined by OSHA 29CFR 1910.1200; however, this product should be handled according to good lab practices, with proper personal protective equipment, proper engineering controls, and within the parameters of the purchaser's safety program.
The product is not classified, according to the Globally Harmonized System (GHS).

- **Additional information:**
Microorganism pellet/disc may be pale or colored depending upon the product item number. Depending upon product item number, microorganism pellet may be:
A.) packaged in vacuum stoppered glass vial with tear off crimp cap
B.) sealed within a labeled plastic swab stick tube within labeled foil pouch
C.) colored disc in plastic 2mL tube placed on top of cotton plug and colored desiccant granules

- **Label elements**
- **GHS label elements** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *Void*
- **Precautionary statements**
All microbial substances should be handled by qualified microbiologists using appropriate safety procedures and precautions. Detailed information on laboratory safety procedures are provided in Laboratory Safety: Principles and Practice (Fleming et al) and in the U.S. Government Publication, Biosafety in Microbiological and Biomedical Laboratories.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*

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· **vPvB:** Not applicable.

* 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
57-50-1	sucrose, pure	8.75%
· Non-hazardous components		
	Proprietary Matrix	78.75%
	Powdered Milk	10.0%
9050-36-6	Malto Dextrin	2.0%
50-81-7	ascorbic acid	0.5%

- **Additional information:**

This substance is not hazardous as defined by OSHA 29CFR 1910.1200; however, this product should be handled according to good lab practices, with proper personal protective equipment, proper engineering controls, and within the parameters of the purchaser's safety program.

* 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Inhalation of infectious materials may result in infection.
- **After skin contact:**
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
- **After eye contact:** Contact with eyes may cause infection.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
Responders should take into consideration the biohazard risk associated with responding to a fire in the area where the material may be stored or handled.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective gloves/protective clothing and eye/face protection. Do not get in eyes, on skin, or on clothing.
Emergency responders should take into consideration the biohazard risk associated with responding to a spill in the area where the material may be stored or handled.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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· **Methods and material for containment and cleaning up:**

Prevent further leakage or spillage if safe to do so.

Allow aerosols to settle. Wearing protective clothing, gently cover spill with paper towel and apply 1% sodium hypochlorite, starting at perimeter and working towards the center. Allow sufficient contact time before clean up (30 minutes). The use of additional personal protective equipment may be necessary for cleaning solutions.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

None of the ingredients is listed.

· **PAC-2:**

None of the ingredients is listed.

· **PAC-3:**

None of the ingredients is listed.

* 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Handle and store according to instructions on product information sheet and label.

No special measures required.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

Requirements to be met by storerooms and receptacles: No special requirements.

· **Information about storage in one common storage facility:** Keep in properly labeled containers.

· **Further information about storage conditions:** Keep in properly labeled containers.

· **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

57-50-1 sucrose, pure

PEL Long-term value: 15 * 5 ** mg/m³
*total dust **respirable fraction

REL Long-term value: 10 * 5 ** mg/m³
*total dust **respirable fraction

TLV Long-term value: 10 mg/m³
A4

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

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· **Breathing equipment:**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Wear safety glasses with side shields or goggles.

· **Body protection:** Protective work clothing

* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

Appearance:

Microorganism pellet/disc may be pale or colored depending upon the product item number. Depending upon product item number, microorganism pellet may be:

A.) packaged in vacuum stoppered glass vial with tear off crimp cap

B.) sealed within a labeled plastic swab stick tube within labeled foil pouch

C.) colored disc in plastic 2mL tube placed on top of cotton plug and colored desiccant granules

· **Form:**

Solid

· **Color:**

According to product specification

· **Odor:**

Characteristic

· **Odor threshold:**

Not determined.

· **pH-value:**

Not applicable.

· **Change in condition**

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

Undetermined.

· **Flash point:**

Not applicable.

· **Flammability (solid, gaseous):**

Not determined.

· **Decomposition temperature:**

Not determined.

· **Ignition temperature:**

Product is not selfigniting.

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· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
VOC content:	0.00 %
Solids content:	91.3 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under recommended storage conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Extremes of temperature and direct sunlight.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

*11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:
57-50-1 sucrose, pure
Oral LD50 29,700 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:** Smaller quantities can be disposed of with household waste.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**

- **DOT, IMDG, IATA**

UN3373

- **UN proper shipping name**

- **DOT**

- **IMDG**

- **IATA**

Biological substance, Category B

BIOLOGICAL SUBSTANCE, CATEGORY B

Biological substance, category B

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· Transport hazard class(es) · DOT	
	
· Class · Label	6.2 Infectious substances 6.2
· IMDG, IATA	
	
· Class · Label	6.2 Infectious substances 6.2
· Packing group · DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category · Stowage Code	Warning: Infectious substances 606 F-A,S-T C SW2 Clear of living quarters. SW18 Category A, when transported in accordance with P650.
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Quantity limitations	On passenger aircraft/rail: 4 L or 4 kg On cargo aircraft only: 4 L or 4 kg
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 3373 BIOLOGICAL SUBSTANCE, CATEGORY B, 6.2

*15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara	No further relevant information available.
· Section 355 (extremely hazardous substances):	None of the ingredients is listed.

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· Section 313 (Specific toxic chemical listings):		
None of the ingredients is listed.		
· TSCA (Toxic Substances Control Act):		
57-50-1	sucrose, pure	ACTIVE
9050-36-6	Malto Dextrin	ACTIVE
50-81-7	ascorbic acid	ACTIVE
· Hazardous Air Pollutants		
None of the ingredients is listed.		
· Proposition 65		
· Chemicals known to cause cancer:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value)		
57-50-1	sucrose, pure	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· GHS label elements Void		
· Hazard pictograms Void		
· Signal word Void		
· Hazard statements Void		
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- **Contact:** - Department Technical Manager
- **Date of preparation / last revision** 09/11/2024 / -
- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

· *** Data compared to the previous version altered.**

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