

Material Safety Data Sheet: nPLEX Food Total

1. KIT COMPONENT

Product name	nPLEX Food Total
Catalog code	TAGN01001
Application of the substance	For research use only
Manufacturer/supplier	TAAG Genetics
Address	Rio Refugio 9641, ENEA, Pudahuel. Chile
Contact number	+56229353200 www.taag-genetics.com

2. HAZARD IDENTIFICATION

Classification of the substance or mixture	The product is not classified as hazardous according to the Globally Harmonized System (GHS).
GHS label element	Not applicable
Hazard pictograms	Not applicable
Signal Word	Not applicable
Hazard statements	Not applicable
Classification system	NFPA ratings (scale 0 - 4) Health = 0 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) Health = 0 Fire = 0 Reactivity = 0
OSHA Hazard Overview (Criteria according to 29CFR 1910.1200)	
Target Organ(s)	Not applicable
Other hazards	Not applicable
Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization	Mixtures
Description	The product is made up of a mixture of non-hazardous components
Dangerous components	None

4. FIRST-AID MEASURES

General information	No special measure required
After inhalation	If the patient feels unwell or is concerned, obtain medical advice.
After skin contact	Generally, the product does not irritate the skin.
After eye contact:	Rinse opened eye for several minutes under running water.
After swallowing	If the patient feels unwell or is concerned, obtain medical advice.
Information for doctor:	
Most important symptoms and effects, both acute and delayed	None - No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture	None known - No further relevant information available.
Advice for firefighters	No special advice
Protective equipment	No special measures required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Not required.
Environmental precautions	Dilute with plenty of water.
Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Reference to other sections	No dangerous substances are released. See Section 7 for information on safe handling. See Section 13 for disposal information

7. HANDLING AND STORAGE

Handling

Precautions for safe handling	No special measures required.
Information about protection against explosions and fires:	The product is not flammable.

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	Not required.
Further information about storage conditions	
Specific end use(s)	None - No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Personal protective equipment	The usual precautionary measures for handling chemicals should be followed.
General protective and hygienic measures	The usual precautionary measures for handling chemicals should be followed.
Breathing equipment	Not required.
Protection of hands	Not required.
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 cannot be calculated in advance and has therefore to be checked prior to the application.
Eye protection	Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
- Form	Fluid
- Color	Colorless

TAAG Genetics

Odor	Not determined
Odor threshold	Not determined
pH value	8,5 at 20°C
Change in condition	
- Melting point	Undetermined
- Boiling point	100°C
Flash point	Not applicable
Flammability (solid, gaseous)	Not applicable
Decomposition temperature	Not determined
Auto igniting	Product is not self-igniting
Danger of explosion	Product does not present an explosion hazard.
Explosion limits	
- Lower	Not determined.
- Upper	Not determined.
Vapor pressure	Not determined.
Density	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	
Solubility in / Miscibility with	
- Water	Fully miscible
Partition coefficient (n-octanol/water)	Not determined.
Viscosity	
- Dynamic	
- Kinematic	Not determined.
Organic solvents	Not determined.
Water	1.0 %
VOC content	76.7 %
Solids content	0.00 %
Other information	1.6 %
	No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	
Thermal decomposition / conditions to be avoided	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
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	No data available
Primary irritant effect	
- on the skin	No irritant effect
- on the eye	No irritant effect
Sensitization	No sensitizing effects known.
Additional toxicological information	The product is not subject to classification according to internally approved calculation methods for preparations
Carcinogenic categories	
IARC (International Agency for Research on Cancer)	None of the ingredients are listed.
NTP (National Toxicology Program)	None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed.

12. ECOLOGICAL INFORMATION

Toxicity	
Aquatic toxicity	Not available - No further relevant information available
Persistence and degradability	Not available- No further relevant information available
Bioaccumulative potential	Not known - No further relevant information available
Mobility in soil	No further relevant information available
Ecotoxicological effects	
Remark	Not available
Additional ecological information	
General notes	Not available- Not known to be hazardous to water.
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	Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees
Uncleaned packagings	
Recommendation:	Disposal must be made according to official regulations. Water, if necessary, with cleansing agents.
Recommended cleansing agent:	

14. TRANSPORT INFORMATION

UN - Number	Not hazardous for transport
DOT, ADR, ADN, IMDG, IATA	Not applicable
UN proper shipping name	None
DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	None
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group	None
DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Codex	Not applicable
UN "Model Regulation"	Not applicable

15. REGULATORY INFORMATION

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

Section 355 (extremely hazardous substances)	None of the ingredients are listed.
Section 313 (Specific toxic chemical listings)	None of the ingredients are listed.
TSCA (Toxic Substances Control Act) Inventory	None of the ingredients are listed.
Hazardous Air Pollutants	None of the ingredients are listed.

Proposition 65

Chemicals known to cause cancer	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for females	None of the ingredients are listed.
Chemicals known to cause reproductive toxicity for males	None of the ingredients are listed.
Chemicals known to cause developmental toxicity	None of the ingredients are listed.

Carcinogenicity categories

EPA (Environmental Protection Agency)	None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH)	None of the ingredients are listed.
57-50-1 sucrose, pure A4	
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients are listed.
GHS label elements	Not applicable
Signal word	Not applicable
Hazard statements	Not applicable
Water hazard class	Generally, not hazardous for water.
Chemical safety assessment	A Chemical Safety Assessment has not been carried out.

16. REGULATORY 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.

Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- 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
- 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