

SAFETY DATA SHEET

SDS

UN number: none

Verified maker

Section 1: Identification

1. Product supplier

Company : Taiyo Yuka Co., Ltd.
 Address : 2-12-2, Misono, Itabashi-ku, Tokyo
 Division : Recycling Division
 Telephone : (+81) - 3 - 3938 - 0022
 Fax : (+81) - 3 - 3938 - 0078
 Emergency Telephone Number : stated above
 Revision Date: AUG, 21, 2024

Registration Number T Y - T K 8

2. Product Name: [TOKYO 8] Plant activator

Section 2: Hazard(s) Identification

The product mention above is not considered as hazardous by Japanese Industrial Standard (JIS Z 7253:2012)

Section 3: Composition/Information on Ingredients

Pure substances/Combination patterns : mixtures

Chemical name : Natural microbial plant activator

Element	Quantity(ppm))	Identified Microorganisms
Phosphorous(P)	<0.3	Acidobacteria, Actinobacteria, Bacteroidetes, Chlorobi, Chloroflexi,
Potassium(K)	84.1	Planctomycetes, Alphaproteobacteria, Betaproteobacteria,
Sulfur(S)	28.2	Deltaproteobacteria, Epsilonproteobacteria,
Calcium(Ca)	35.9	Gammaproteobacteria, TM6, TM7,
Magnesium(Mg)	0.6	Verrucomicrobia, Firmicutes
Iron(Fe)	<1.0	(section 16: shows in Figure 1)
Molybdenum(Mo)	0.5	
Copper(Cu)	<0.5	
Manganese(Mn)	0.6	
Sodium(Na)	159	
Nickel(Ni)	<0.5	
Chlorine(Cl)	193.5	
Cobalt(Co)	<1.1	
Vanadium(V)	<0.5	
Selenium(Se)	<0.5	
Total Solid	0.28%	

Section 4: First-Aid Measures

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

In case of skin contact : wash off with plenty of water or wipe out with a wet towel depending on situation.

If swallowed : Rinse mouth with water well.

Section 5: Fire-Fighting Measures

Conditions of flammability (liquid)

Not flammable or combustible

Section 6: Accidental Release Measures

not required

Section 7: Handling and Storage

Precautions for safe handling : don't use fungicide and bleach at the same time or alternatively

Precautions for safe storage : store in dark place at temperature (0~40°C)

Section 8: Exposure Controls/Personal Protection

Contained substances with occupational exposure limit values : no data available

Specific engineering control : not necessary

Personal protective equipment respirators: :not necessary

safety glasses: :not necessary

safety gloves: :not necessary

safety clothing: :not necessary

Section 9: Physical and Chemical Properties

Appearance : transparent to brown, liquid

Odor : odorless

Melting point : no data available

Bulk specific density : 1.0

Water solubility : soluble (by vision)

Section 10: Stability and Reactivity

Reactivity : no specific data

Chemical stability : stable

Other

Indication of the possibility of hazardous reaction : hazardous reactions will not occur under normal condition

List of all conditions that should be avoided : no specific data

List of all classes of incompatible materials : no specific data

List of any known or anticipated hazardous decomposition products that could be produced because of use, storage or heating : (Hazardous combustion products should also be included in Section 5 ((Fire-Fighting Measures) of the SDS))

Section 11: Toxicological Information

Sensitization : Lead : not detected

Cadmium : not detected

Chromium :not detected

Cyanide compounds (as HCN) :not detected

Skin sensitization :negative by human skin primary irritation test (non-irritant)

Acute toxicity :not classified

GHS classification of Hazardous to the aquatic environment

:Short-term (acute) aquatic hazard: Not classified (crustacea)

Section 12: Ecological Information (non-mandatory)

Persistence and degradability : biodegradable in nature

Accumulation : none

Fish toxicity : none

Other adverse effect : none

Section 13: Disposal Considerations (non-mandatory)

Disposal consideration : dispose of product containers, waste containers, and residues according to local, health and environmental regulations.

do not reuse containers

Section 14: Transport Information (non-mandatory)

Identification Number :

Shipping Name :

Transport hazard class(es) :

Packing Number (if applicable) :

Guidance on transport in bulk (International Bulk Chemical Code(IBC Code)):

Special Precautions: When transporting the product, confirm that they are always transport in closed containers that are upright and completely prevent the product from collapsing.

Local classification and number: Not classified as dangerous goods according to standards.

Section 15: Regulatory Information (non-mandatory)

Control law of Chemical substances (specified and designated chemical substances) :not applicable

Industrial safety, health and environmental regulations
(legislation specific for organic substances and labelling) :not applicable

Fire Service Act : Hazardous materials : not applicable

Poisonous and Deleterious Substances Control Law :

Poisonous and Deleterious Substances :not applicable

Release amount of specific chemical substances in the environment and promotion of improvements to the management (PRTR Law - pollutant release and transfer registering law) :

type 1 designated chemical substances : not applicable

type 2 designated chemical substances :not applicable

Regulations for the carriage and dangerous goods storage by :

dangerous goods : not applicable

Prevention of marine pollution and maritime disaster law : not applicable

Aviation law :not applicable

Section 16: Other Information

※Types of microorganisms

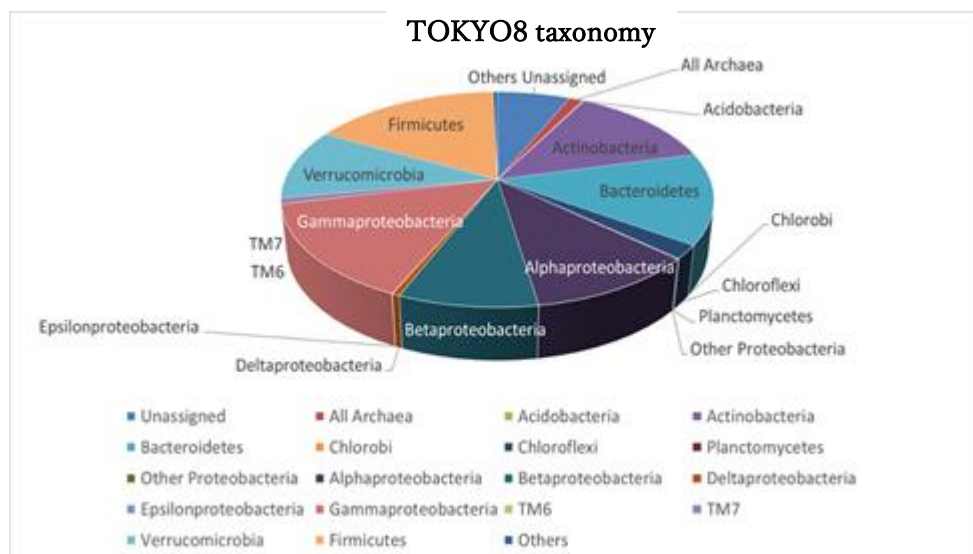


Figure 1- ByDenaturing Gradient Gel Electrophoresis DGGE) analysis

※The fiscal year 2012- Subsidies for the promote creative business activity for small and medium enterprises(hereafter referred to as SME's) by establishing the basic principles, basic policies and other matters relating to measure for SMEs and clarifying the responsibilities.

(Fiscal year 2013 selection) results

※Registered fertilizer

※ References

JIS Z 7253:2012 issued by the Japanese Standards Association

Methods of communicating hazard information on chemicals based on the GHS - Labels, workplace displays and safety data sheets (SDS)

Employer Responsibilities

The employers who are working in this field, must ensure that the SDS is readily accessible to employees for all hazardous chemicals in their workplace. Furthermore, employers may want to designate a person(s) responsible for obtaining and maintaining the SDS, the employer or designated person(s) should contact the manufacturer to obtain one.

General Disclaimer:

The information in the SDS is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for applications. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of

relevant legislation are complied with. The information contained in the SDS does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

