

Material Safety Data Sheet

Product Name	오타카 효소추출물
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01. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- a. Product Name : 오타카 효소추출물
- b. Recommended product use : Cosmetic ingredient
- c. Manufacture
- Name : EVERNESOL Co., Ltd.
 - Address : #405, Ochang Venture Plaza, 7, Gangri-1-gil, Ochang-eup, Chengwon-gu, Cheongju-si, Cheungchengkuk-do, South Korea
 - Emergency phone number : Tel. +82-43-232-2399
- d. Expiration Date : 2 years after the production date

02. HAZARDS IDENTIFICATION

- a. Hazardous Categories Health hazards
- Skin Corrosion/Irritation : Category 2
- b. Label elements including precautionary statements



- Signal Word Warning
- Hazard Statements
- H315 Causes skin irritation
- P264 Wash thoroughly after handling
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P302+P352 If on skin : wash with plenty of water
- P312 Call a poison doctor if you feel unwell
- P332+P313 Skin irritation : get medical advice
- P362+P364 Remove contaminated clothing and wash before reuse
- P363 Wash contaminated clothing before reuse
- P410+P412 Protect from sunlight. Do not expose to temperature exceeding 50°C
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations

03. COMPOSITION/INFORMATION ON INGREDIENTS

INCI Name	한글전성분명	CAS No.	EINECS No.	Content(%)
Water	정제수	7732-18-5	231-791-2	97.00
1,2-Hexanediol	1,2-헥산다이올	6920-22-5	230-029-6	2.50
Saccharomyces/Leuconostoc/Apple Fruit/Carrot Root/Radish Root/Cabbage Leaf/Celery Leaf/Cucumber Fruit/Banana Fruit/Onion Bulb/Arctium Lappa Root/Spinach Leaf/ Orange Peel/Tomato Fruit/Phaseolus Radiatus Sprout/Pumpkin Fruit Extract Ferment Filtrate	효모/류코노스톡/사과/당근/무/양배추/셀러리/오이/바나나/양파/우엉/시금치/오렌지껍질/토마토/녹두싹/호박추출발효여과물	-	-	0.50
Total				100.00

04. FIRST-AID MEASURES

- a. Eye Contact
 - Contact a physician immediately.
 - Flush immediately with clean water for at least 20 minutes.
- b. Skin Contact
 - Contact a physician if necessary.
 - Remove any contaminated clothing and footwear, and wash before reuse.
 - Wash affected areas thoroughly with soap and water for at least 20 minutes.
- c. Inhalation
 - Remove from the exposure to fresh air.
 - Keep it warm and stable.
- d. Ingestion
 - Contact a physician immediately.
 - Do not perform mouth-to-mouth CPR. Seek for proper respiration medical device.
- e. Advice to doctor
 - Treat symptomatically. Note the nature of this product.

05. FIRE-FIGHTING MEASURES

- a. Suitable extinguishing media : Water. Water fog. Foam. Carbon dioxide(CO2). Sand. Earth
- b. Specific hazards arising from the chemical
 - Flammable aerosol : May cause fire and explosion. May produce toxic fumes if burning.
 - May produce corrosive/toxic fumes if heating.
- c. Protective equipment & precautions
 - Wear protective fire-fighting equipment.
 - Keep safety distance when fighting fires.
 - Accidental release chemical may cause contamination.
 - May cause burns on eyes and skin when contact.

06. ACCIDENTAL RELEASE MEASURES

a. Personal Precautions

- Eliminate all ignition sources. Wipe up spills, and stop the flow of material, it this is without risk.
- Do not get in contact with the spills and leaked container without proper protective equipments.

b. Environmental Precautions

- Prevent from entering drainage systems, sewage, basement and sealed place.

c. Methods for cleaning up

- Use a non-combustible material like sand or earth to soak up the product and place into a container for later disposal.
- Clean surface with water and detergent.

07. HANDLING AND STORAGE

a. Handling

- Do not spray on an open flame or other ignition sources.
- Wash hands thoroughly after handling.
- Handle empty container in accordance with MSDS/Label.
- Do not get in contact with skin for a long time/continuously.
- Use care in handling/storage.

b. Storage

- Keep away from heat/spark/open flames/hot surface. No smoking.
- Pressure container: Do not make a hole/burn the empty container.

08. EXPOSURE CONTROLS / PERSONAL PROTECTION

a. Exposure Limits

- KOSHA : Not available
- ACGIH : Not available
- BEI : Not available

b. Recommended monitoring Procedures

- Install safety shower and eye wash.

c. Personal Protective Equipment

- Respiratory Protection : Wear proper respiratory mask.
- Eye Protection : Not available
- Hand Protection : Not available
- Skin Protection : Not available

09. PHYSICAL AND CHEMICAL PROPERTIES

a. Appearance

- Physical state : Liquid
- Color : Clear
- b. Odor : Typical
- c. Odor Threshold : Not available
- d. pH : 5.0 ~ 7.0
- e. Melting Point/Freezing Point : Not available
- f. Boiling Point : Not available

g. Flash Point	: Not available
h. Evaporation Rate	: Not available
i. Flammability(solid, gas)	: Not available
j. Flammability Limits in Air, Upper/Lower % by Volume	: Not available
k. Vapor Pressure	: Not available
l. Solubility(H ₂ O)	: Soluble in Water
m. Vapor Density	: Not available
n. Relative density(nD)	: 1.300 ~ 1.350
o. Partition Coefficient(n-octanol/water)	: Not available
p. Auto-Ignition Temperature	: Not available
q. Decomposition Temperature	: Not available
r. Viscosity	: Not available
s. Molecular Weight	: Not available
t. Specific gravity(d ₂₀ /20)	: 0.970 ~ 1.090

10. STABILITY AND REACTIVITY

- Chemical Stability and Possibility of Hazardous Reactions
 - Flammable aerosol : May cause fire and explosion.
 - May produce toxic fumes if burning.
 - May produce corrosive/toxic fumes if heating.
- Condition to Avoid : Ignition sources such as heat, spark and open flames.
- Material to Avoid : Combustible substances, Reducing substances, strong acids, strong alkalis, strong peroxidation substances.
- Hazardous Decomposition Products
 - Corrosive/toxic fumes

11. TOXICOLOGICAL INFORMATION

- Possible routes of Exposure
 - Respiratory system : Not available
 - Oral : Not available
 - Skin : Not available
 - Eye : Not available
- Health Hazards
 - Acute Toxicity
 - Oral : Not available
 - Dermal : Not available
 - Inhalation : Not available
 - Skin Corrosion/Irritation : Not available
 - Serious Eye Damage/Irritation : Not available
 - Respiratory Hypersensitiveness : Not available
 - Dermal Hypersensitiveness : Not available
 - Carcinogenicity
 - IARC : Not available
 - OSHA : Not available

- ACGIH : Not available
- NTP : Not available
- EU CLP : Not available
- Reproduction Mutagenicity : Not available
- Reproduction Toxicity : Not available
- Specific Target Organ Toxicity(Single exposure) : Not available
- Specific Target Organ Toxicity (Repeated exposure) : Not available
- Aspiration Harmfulness : Not available

12. ECOLOGICAL INFORMATION

- a. Eco-toxicity
 - Fish : Not available
 - Crustacean : Not available
 - Algae : Not available
- b. Persistence & Degradability : Not available
- c. Bioaccumulation : Not available
- d. Mobility : Not available
- e. Other Adverse Effects : Not available

13. DISPOSAL CONSIDERATIONS

- a. Disposal Methods : Dispose of contents/containers in accordance with local/regional/national/international regulations.

14. TRANSPORT INFORMATION

- a. UN Number : Not classified
- b. Proper Shipping Name : Not applicable
- c. Hazard Class : Not applicable
- d. Packing Group : Not applicable
- e. Marine Pollutant : Not applicable
- f. Special Precautions : Not applicable

15. REGULATORY INFORMATION

- a. Country(s) or region
 - Korea
 - Occupation Safety and Health Acts : Not available
 - Chemicals Management Acts : Not available
 - Safety Control of Dangerous Substances Acts : Yes
 - Wastes Control Acts : Yes
 - Persistent Organic Pollutants Control Acts : Not applicable
 - United States
 - OSHA : Not applicable
 - CERCLA : Not applicable
 - EPCRA 302 : Not applicable

- EPCRA 304 : Not applicable
- EPCRA 313 : Not applicable
- Rotterdam Convention : Not applicable
- Stockholm Convention : Not applicable
- Montreal Protocol : Not applicable
- EU
 - Symbols : Not applicable
 - Risk phrases : Not applicable
 - Safety phrases : Not applicable

16. OTHER INFORMATION

a. References

- IUCID,NLM(Oral)
- NLM,THOMSON(Dermal)
- IUCID(Skin Corrosion/Irritation)
- IUCID(Serious Eye Damage/Irritation)
- IUCID(Dermal Hypersensitiveness)
- IUCID(Carcinogenicity)
- IUCID(Specific Target Organ Toxicity)
- ECOSAR(Fish)
- ECOSAR(Crustacean)
- ECOSAR(Algae)
- HSDB(Appearance)
- HSDB(Color)
- HSDB(Odor)
- The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>)(Melting Point/Freezing Point)
- The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>)(Boiling Point)
- The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>)(Flash Point)
- The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>) (Flammability Limits in Air, Upper/Lower % by Volume)
- The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>)(Vapor Pressure)
- The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>)(Solubility)
- The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>)(Vapor Density)
- The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>)(Relative Density)
- The Chemical Database, The Department of Chemistry at the University of Akron (<http://ull.chemistry.uakron.edu/erd>)(Partition Coefficient(n-octanol/water))
- The Chemical Database, The Department of Chemistry at the University of Akron

- (<http://ull.chemistry.uakron.edu/erd>)(Auto-Ignition Temperature)
- The Chemical Database, The Department of Chemistry at the University of Akron
(<http://ull.chemistry.uakron.edu/erd>)(Viscosity)
- The Chemical Database, The Department of Chemistry at the University of Akron
(<http://ull.chemistry.uakron.edu/erd>)(Molecular Weight)
- OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>) (Oral)
- International Chemical Safty Cards (ICSC)
(<http://www.ilo.org/public/english/protection/safework/cis/products/icsc/dtasht/index.htm>)
(Skin Corrosion/Irritation)
- OECD Screening Information Data Set(<http://cs3-hq.oecd.org/scripts/hpv/>)
(Skin Corrosion/Irritation)
- International Uniform Chemical Information Database(IUCLID)
(<http://ecb.jrc.it/esis>) (Dermal Hypersensitiveness)
- International Chemical Safety Cards (ICSC)
(<http://www.ilo.org/public/english/protection/safework/cis/products/icsc/dtasht/index.htm>)
(Specific Target Organ Toxicity (Single exposure))
- International Chemical Safety Cards (ICSC)
(<http://www.ilo.org/public/english/protection/safework/cis/products/icsc/dtasht/index.htm>)
(Specific Target Organ Toxicity (Repeated exposure))
- ECOTOX(Fish)
- IUCLID(Crustacean)
- IUCLID(Algae)
- The Chemical Database, The Department of Chemistry at the University of Akron
(<http://ull.chemistry.uakron.edu/erd>)(Persistence)
- IUCLID(Degradability)
- Ecological Structure Activity Relationships(ECOSAR)(Bioaccumulation)
- 14303ChemicalProducts(Japan)
- NLM
- The Chemical Database, The Department of Chemistry at the University of Akron
(<http://ull.chemistry.uakron.edu/erd>)(Appearance)
- The Chemical Database, The Department of Chemistry at the University of Akron
(<http://ull.chemistry.uakron.edu/erd>)(Color)
- National Library of Medicine(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>)(Oral)
- lookchem(Boiling Point)
- lookchem(Flash Point)
- lookchem(Molecular Weight)

b. Creation Date : Nov. 09 , 2018

c. Revision Number and date

- Revision Number : -
- Revision Date : -

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