

Safety Data Sheet

1. Identification Substances and Corporate Information

Product Name : Horus ESP Complex-B
 Mnufacturer : Horus Co., Ltd.
 Address : 3-3-5 Nakano Nakano-ku Tokyo 164-0001 JAPAN
 TEL/Emergency TEL No: : +81-3-5328-9331
 Fax : +81-3-5328-9340

2. Hazards Identification

GHS : Not Classified

3. Composition/Information on Ingredients

Substance/Mixture: : Mixture

NAME / INCI	CAS NUMBER	CONTENT	Reference Number in Gazetted List in Japan	
			The Chemical Substances Control Law	Industrial Safety and Health Law
Water	7732-18-5	34.2199987%	-	-
Alcohol	64-17-5	30.0000000%	(2)-202	-
Butylene Glycol	107-88-0	20.0000000%	(2)-235	-
Rice Ferment Filtrate (Sake)	-	14.0000000%	-	-
Pyrolidinyli Diaminopyrimidine Oxide	55921-65-8	1.5000000%	-	-
Hydrolyzed Swiftlet Nest Extract	-	0.1400000%	-	-
Placental Protein	84195-59-5	0.1400000%	-	-
sh-Oligopeptide-1	62253-63-8	0.0000010%	-	-
sh-Polypeptide-3	126469-10-1	0.0000002%	-	-
sh-Polypeptide-11	104781-85-3	0.0000001%	-	-

Hazardous Constituent : No Information

4. First Aid Measures

Inhalation : Remove from exposure and provide fresh air. See a doctor if necessary.
 Skin Contact : Wash with skin. See a doctor if necessary.
 Eye Contact : Wash with affluent amount of clean water. Wash and take out the contact lenses if possible. See a doctor if necessary.
 Ingestion : Rinse mouth with water. See a doctor if necessary.

5. Fire Fighting Measures

Suitable Extinguishing Media : Water spray, Dry chemical powder or appropriate foam.
 Condemned Fire Extinguishing Agent : No Information
 Specific Hazards Arising from the Chemical : No Information
 Fire Extinguishing Method : Extinguish a fire with suitable fire extinguishing agent. And work in the windward as much as possible.
 Protective Measures in Fire : Suitable protective clothing must be worn in case of fire.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	:	Wear protective equipment such as gloves, glasses during dealing with the accidental Leakage.
Environmental Precautions	:	Don't flow the leakage into the river and sewage directly.
Methods and Materials for Containment and Cleaning Up	:	In the case of a small amount, remove adsorbed by adsorbent (sawdust, soil, sand, waste, etc.) and wipe well rest leakage by rag. In the case of a large amount, the leakage should be enclosed by embankments to prevent the outflow, then transfer leakage to a safe place.

7. Handling and Storage

Handling		
Technological Countermeasure	:	Install facilities for washing eyes and physical washing.
Local Ventilation/General Ventilation	:	Measures concerning local exhaust ventilation system.
Usage Precaution	:	After opening, it is preferable to use it as much as possible completely.
Safety Precaution	:	Wash hands and gargle after work.
Storage		
Technological Countermeasure	:	No Information
Mixed Prohibition Material	:	No Information
Storage Space	:	Avoid direct sunlight. Keep the solution in a cool & dark place. Use caution with the microbial contamination when keeping it
Safe Case/Packaging Material	:	Conforming to material.

8. Exposure Controls/Personal Protection

Standard Control Concentration Allowable Concentration	:	Not be Set
Japan Association of Industrial Health	:	Not be Set
ACGIH	:	Not be Set
Countermeasure Equipment	:	Install a local exhaust device. Make available in the work area with shower and eyes washer.
Protection		
Respiratory Protection	:	Mask
Hand Protection	:	Protective Glove
Eye Protection	:	Protective Eyeglasses(Glasses, Goggles)
Skin Protection	:	Working Clothes, Safety Shoes

9. Physical and Chemical Properties

Shape	:	Colorless to light yellow liquid
Odor	:	Slight characteristic odor
pH	:	6.0~8.0
Boiling Point	:	No Data
Melting Point	:	No Data
Initial Boiling Point and Boiling Range	:	No Data
Flash Point	:	No Data
Auto-ignition Temperature	:	No Data
Explosive Range or Combustible Range	:	No Data
Vapor Pressure	:	No Data
Density	:	No Data
Solubility	:	Easily soluble in water

10. Stability and Reactivity

Chemical Stability	:	Stable under normal conditions.
Reactivity	:	None under normal processing.
Conditions to Avoid (Static Discharge, Shock, Vibration)	:	High temperature and humidity. Extremely low temperature.
Incompatible Materials	:	No Information
Hazardous Decomposition Products	:	No Information

11. Toxicological Information

Acute Toxicity	:	No Data
Skin Corrosivity/Irritation	:	No Data
Serious Eye Damage/Eye Irritation	:	No Data
Respiratory or Skin Sensitization	:	No Data
Germ Cell Mutagenicity	:	No Data
Carcinogenicity	:	No Data
Reproductive Toxicity	:	No Data
STOT-single Exposure	:	No Data
STOT-repeated Exposure	:	No Data
Aspiration Hazards	:	No Data

12. Ecological Information

Ecological Toxicity	:	No Data
Persistence and Degradability	:	No Data
Bioaccumulative Potential	:	No Data
Mobility in Soil	:	No Data
Ozone Layer Toxicity	:	No Data

13. Disposal Considerations

Discarding Method	:	Disposal of waste and residues in accordance with waste disposal requirements.
Treatment Method of Container	:	After having removed contents, Disposal of waste and residues in accordance with waste disposal requirements.

14. Transport Information

Municipal Law		
Land Transportation	:	Not Applicable
Marine Transportation	:	Not Applicable
Aerial Transport	:	Not Applicable
International Law		
Marine Transportation	:	Not Applicable
Aerial Transport	:	Not Applicable

15. Applicable Law

Fire Protection Law	:	Not Applicable
Industrial Safety and Health Law	:	Not Applicable

16. Other Information

Citation : GHS Information: The home page for National Institute of Technology and Evaluation
(http://www.safe.nite.go.jp/ghs/ghs_index.html)

The above information is provided depending upon the references available at present. However no guarantee will be made with data and evaluations.

The instructions/cautions in the above information is designed based upon conventional handling of the product. New safety management measures should be arranged for new usage of the product.

Recorded content is in accordance with the regulations.