S A F E T Y D A T A S H E E T

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	: EMALEX PEIS-20EX
COMPANY NAME, ADDRESS, PHONE NUMBER	
	: NIHON EMULSION CO., LTD.
	: 5-32-7 Koenji-Minami Suginami-Ku Tokyo 166-0003 Japan
	: (81)3-3314-3211
FAX NUMBER	: (81)3-3312-7207
E-MAIL ADDRESS	: trade@nihon-emulsion.co.jp
RECOMMENDED USE OF PRODUCT	: Emulsifier, Dispersant, Solubilizing agent
SERIAL No.	: PEIS20EX0004E

2.HAZARDS IDENTIFICATION

GHS CLASSIFICATION OF THE SUBSTANCE:

PHYSICAL HAZARDS:

EXPLOSIVES	: Not classified
FLAMMABLE GASES	: Not classified
AEROSOLS	: Not classified
OXIDIZING GASES	: Not classified
GASES UNDER PRESSURE	: Not classified
FLAMMABLE LIQUIDS	: Not classified
FLAMMABLE SOLIDS	: Classification not possible
SELF-REACTIVE SUBSTANCES AND MIXTURES	: Not classified
PYROPHORIC LIQUIDS	: Not classified
PYROPHORIC SOLIDS	: Not classified
SELF-HEATING SUBSTANCES AND MIXTURES	: Not classified
SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES	: Not classified
OXIDIZING LIQUIDS	: Not classified
OXIDIZING SOLIDS	: Not classified
ORGANIC PEROXIDES	: Not classified
CORROSIVE TO METALS	: Classification not possible
DESENSITIZED EXPLOSIVES	: Not classified

HEALTH HAZARDS:

ACUTE TOXICITY (Oral)	: Classification not possible
ACUTE TOXICITY (Dermal)	: Classification not possible
ACUTE TOXICITY (Inhalation, Gas)	: Not classified
ACUTE TOXICITY (Inhalation, Vapour)	: Classification not possible
ACUTE TOXICITY (Inhalation, Dust, Mist)	: Classification not possible
SKIN CORROSION/IRRITATION	: Classification not possible
SERIOUS EYE DAMAGE/EYE IRRITATION	: Classification not possible
RESPIRATORY SENSITIZATION	: Classification not possible
SKIN SENSITIZATIONS	: Classification not possible
GERM CELL MUTAGENICITY	: Classification not possible
CARCINOGENICITY	: Classification not possible
REPRODUCTIVE TOXICITY	: Classification not possible
SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE	: Classification not possible
SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE	: Classification not possible
ASPIRATION HAZARD	: Classification not possible

ENVIRONMENTAL HAZARDS:

SHORT-TERM (ACUTE) HAZARDOUS TO THE AQUATIC ENVIRONMENT	: Classification not possible
LONG-TERM (CHRONIC) HAZARDOUS TO THE AQUATIC ENVIRONMENT	: Classification not possible

HAZARDS TO THE OZONE LAYER : Classification not possible

LABEL ELEMENTS:

PICTORIAL REPRESENTATIONS : Not applicable

SIGNAL WORD : Not applicable

HAZARD STATEMENTS : Not applicable

PRECAUTIONARY STATEMENTS

PREVENTION : Wash thoroughly after handling. (P264)

RESPONSE : IF SWALLOWED: Call a POISON CENTER/ doctor/ If you feel unwell. (P301+P312)
IF ON SKIN: Wash with plenty water. (P302+P352)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

STORAGE : Store in a closed container. (P404)

DISPOSAL : Dispose of contents/container according to the rule of international/country/metropolis and districts/cities and towns. (P501)

PRECAUTIONS FOR USE : Please refer to Safety Data Sheet.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE :Substance

INGREDIENTS AND CONTENTS

№.	COMPONENT	Wt%	CAS
1	Polyethylene Glycol Monoisostearate	100	56002-14-3

4. FIRST-AID MEASURES

IF INHALED : Remove to fresh air and keep comfortable for breathing.

IF ON SKIN : Wash with plenty water.

IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED : Call a POISON CENTER doctor. If you feel unwell.

PROTECTION OF THE PERSON MAKING THE EMERGENCY MEASURES : Rescuers rubber gloves should be worn protective equipment, such as sealed goggles.

THE SPECIAL INSTRUCTIONS FOR THE DOCTOR : No information.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Dry chemical, Foam chemical, Carbon dioxide, sand, Spray water.

UNSUITABLE EXTINGUISHING MEDIA : Rod-like water.

SPECIFIC FIRE-FIGHTING HAZARDS : To the combustion gas, contains a toxic gas such as carbon monoxide. Extinguish the fire careful not to inhale the smoke.

SPECIFIC METHODS OF FIRE-FIGHTING : Eliminate the source of combustion, extinguish a fire using the fire extinguishing agent appropriate. As much as possible to do extinguish the fire from upwind. Non-official is to be saved in a secure location. Cool by watering the surrounding facilities. Drainage for fire-fighting, appropriate measures should be taken as chemicals and substance does not flow out to rivers or sewage. Appropriate measures should be taken as chemicals and substance does not flow out to rivers or sewage in drainage for fire fighting.

PROTECTIVE FOR FIRE-FIGHTERS : To extinguish the fire appropriate protective equipment (gloves, glasses, masks, etc.) to wear.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES : The work should be worn (gloves, glasses) protective equipment. If large amounts of spilled material, safely retract the human. To ensure ventilation as needed.

ENVIRONMENTAL PRECAUTIONS : Do not wash away into rivers and direct sewage spilled material.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP : If a small amount, after removing adsorbed in the adsorbent, well wipe cloth, a rag and the rest. Flush with large amounts of water. If large amounts. Surrounded by a berm to prevent runoff. Processing from the or a secure location.

PREVENTIVE MEASURES FOR SECONDARY ACCIDENT	: Remove a thing becoming the nearby ignition sources immediately and prepare for extinguishant. When wet on floor is allowed to stand in a state, slippery so be careful. Do not walk over the spilled material. Use the safe tool which does not generate a spark.

7. HANDLING AND STORAGE

HANDLING:	
RECOMMENDED HANDLING	: Heat, melt and uniform before use. Keep away from overheating.
TECHINICAL MEASURES	: Close to the handling area, set up facilities for eyewash and body wash.
PRECAUTION FOR SAFE HANDLING	: Flammable - Keep Fire Away Adequate ventilation in the workplace do. Wear appropriate protective equipment protective glasses protective gloves. After handling, wash hands and face, and then gargle.
STORAGE:	
CONDITIONS FOR SAFE STORAGE	: In well-ventilated place tightly closed container. Away from flame.
SAFETY PAKAGING MATERIAL	: Follow a product use container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERMISSION VALUE:	
JAPAN SOCIETY FOR OCCUPATIONAL HEALTH	: Not authorized.
ACGIH	: Not authorized.
CONTROL VALUE	: Not authorized.
ENGINEERING MEASURES	: If vapor, fume or mist occurs, installing a local exhaust ventilation. Close to the handling area, set up facilities for eyewash and body wash. Equipment is explosion-proof construction, To implement measures against static electricity.
PROTECTIVE EQUIPMENT:	
RESPIRATORY PROTECTION	: In normal handling is not required.
HAND PROTECTION	: Impermeable (chemical resistance, oil resistance, solvent resistance) protective gloves.
EYES/FACE PROTECTION	: Protection glasses with the side plate. (Need full protective glasses or goggles type safety glasses)
SKIN/BODY PROTECTION	: Long-sleeved work clothes antistatic.
APPROPRIATE HYGIENE MEASURES	: No information.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE	: Soft wax
COLOR	: Pale yellow
ODOR	: Characteristic odor
MELTING POINT/SOLIDIFING POINT	: 36℃ (Melting point) 34℃ (Solidifing point)
BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE	: No data.
FLAMMABILITY	: No data.
LOWER AND UPPER EXPLOSION LIMIT/FLAMMABILITY LIMIT	: No data.
FLASH POINT	: 260℃ (Cleveland opening type)
AUTO-IGNITION TEMPERATURE	: No data.
DECOMPOSITION TEMPERATURE	: No data.
pH	: About 5 (25℃, 1% Aq. soln)
KINEMATIC VISCOSITY	: No data.
SOLUBILITY: WATER SOLUBILITY	: Soluble
SOLUBILITY: SOLVENT SOLUBILITY	: Dissolve in ethanol.
PARTITION COEFFICIENT N-OCTANOL/WATER	: No data.
VAPOUR PRESSURE	: No data.
DENSITY AND/OR RELATIVE DENSITY	: No data.

RELATIVE VAPOUR DENSITY	: No data.
PARTICLE CHARACTERISTICS	: No data.
OTHER DATA	: No data.

10. STABILITY AND REACTIVITY

REACTIVITY	: Reactivity is low.
CHEMICAL STABILITY	: Conditions are stable at normal handling.
POSSIBILITY OF HAZARDOUS REACTIONS	: No information.
CONDITIONS TO AVOID	: No information.
INCOMPATIBLE MATERIALS	: No information.
HAZARDOUS DECOMPOSITION PRODUCTS	: No information.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	
ORAL	: No information. Classification not possible.
SKIN	: No information. Classification not possible.
INHALATION	: (GAS) No information. Classification not possible. (VAPOR) No information. Classification not possible. (DUST, MIST) No information. Classification not possible.
SKIN CORROSION/IRRITATION	: No information. Classification not possible.
SERIOUS EYE DAMAGE/EYE IRRITATION	: No information. Classification not possible.
RESPIRATORY OR SKIN SENSITIZATION	: No information. Classification not possible.
GERMCELL MUTAGENICITY	: No information. Classification not possible.
CARCINOGENICITY	: No information. Classification not possible.
IARC	: Unauthorized.
NTP	: Unauthorized.
NIHON SANGYO HYGIENE SOCIETY	: Unauthorized.
REPRODUCTIVE TOXICITY	: No information. Classification not possible.
SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE	: No information. Classification not possible.
SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE	: No information. Classification not possible.
ASPIRATION HAZARD	: No information. Classification not possible.

12. ECOLOGICAL INFORMATION

ECOTOXICITY	: No information.
PERSISTENCE AND DEGRADABILITY	: No information.
BIOACCUMULATIVE POTENTIAL	: No information.
MOBILITY IN SOIL	: No information.
HAZARD TO THE OZONE LAYER	: No information.

13. DISPOSAL CONSIDERATIONS

: See the chapter "Precautions for Handling and storage".

Entrusted to specialized industrial waste disposal company has received the permission of the prefectural governor.
If the combustion process is performed, during combustion, such as carbon monoxide occurs because, in small portions to be disposed of by incineration.
When disposing of empty containers and dispose after complete removal of the contents.
If possible, it is desirable to recycle empty containers / packaging.

14. TRANSPORT INFORMATION

UN NUMBER	: Not applicable.

PROPER SHIPPING NAME	: Not applicable.
CLASS	: Not applicable.
PACKING GROUP	: Not applicable.
MARINE POLLUTANT	: Not applicable.
IBC CODE and ANNEX Ⅱ MARPOL73/78	: Not applicable.
SPECIFIC CONDITIONS of TRANSPORT and SAFETY MEASURES	: See: "Accidental Release Measures of treatment when leakage". See the chapter "Precautions for Handling and storage". Make sure that there is no damage or leakage of the container. To ensure the prevention of collapse of the luggage. In accordance with applicable laws and regulations, do packaging, display and transportation.
EMERGENCY FIRST AID GUIDELINE NUMBER	: Not applicable.
INTERNATIONAL REGULATIONS	: Comply with the rules of IATA air transport and IMDG sea transport.
LOCAL REGULATIONS	: Land transportation: According to the method of transportation has been established Fire Service Act, the Occupational Safety and Health Act, etc.. Maritime transport: According to the method of transportation is specified in the Ship Safety Law. Air transport: According to the method of transportation have been established in the Aviation Law.

15. REGULATORY INFORMATION

CHEMICAL SUBSTANCES CONTROL LAW (THE SPECIFIED CHEMICAL, MONITOR CHEMICALS)	: Not applicable.
POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW	: Not applicable.

REGISTRATION INFORMATION:

No.	ENCS (Japan)	TSCA (USA)	EINECS (EU)	AICS (Australia)	DSL (Canada)	ECL (Korea)	PICCS (Philippines)	IECSC (China)
1	7-88	Listed	Polymer	Listed	Listed	KE-28885	Non	Listed

16.OTHER INFORMATION:

REFERENCE:

MANUFACTURER'S NAME	: NIHON EMULSION CO., LTD.
ADDRESS	: 5-32-7 Koenji-Minami Suginami-Ku Tokyo 166-0003 Japan
DEPARTMENT IN CHARGE	: SALES DEPARTMENT
PHONES NUMBERS	: (81)3-3314-3211
FAX NUMBERS	: (81)3-3312-7207
E-MAIL ADDRESS	: trade@nihon-emulsion.co.jp
EMERGENCY CONTACT	: (81)3-3314-3211

The information contained is based on the present state of best research. However evaluation with respect to data described and are not necessarily sufficient to guarantee safety. All materials may present unknown hazards and should be used in caution. It is the user's responsibility to determine the conditions necessary for the safe use of this product. In case of special use, carry out that appropriate safe handling for new method of use. Ingredients and contents, Physical and chemical properties, Hazard statements are shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This SDS is translated into English language in reference to the laws and regulations were made in Japan.