

Serial No. HC100003E

MATERIAL SAFETY DATA SHEET
1. CHEMICAL PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION

PRODUCT NAME : EMALEX HC-10
 MANUFACTURER'S NAME : NIHON EMULSION CO., LTD.
 ADDRESS : 5-32-7 Koenji-Minami Suginami-Ku Tokyo 166-0003 Japan
 DEPARTMENT IN CHARGE : SALES DEPARTMENTS
 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
 USE : Emulsifier, Dispersant
 SERIAL No. : HC100003E

2. HAZARD AND TOXICITY INFORMATION

THE MOST IMPORTANT HAZARD :

GHS CLASSIFICATION:

PHYSICOCHEMICAL RISK:

EXPLOSIVES	: Not applicable
INFLAMMABLE GAS	: Not applicable
INFLAMMABLE AEROSOL	: Not applicable
OXIDIZING GAS	: Not applicable
GAS UNDER PRESSURE	: Not applicable
FLAMMABLE LIQUID	: Out of category
FLAMMABLE SOLID	: Not applicable
SELF-REACTIVE SUBSTANCE AND MIXTURE	: Not applicable
PYROPHORIC LIQUID	: Not applicable
PYROPHORIC SOLID	: Not applicable
SELF-HEATING SUBSTANCE AND MIXTURE	: Not applicable
WATER REACTIONS FLAMMABLE CHEMICAL SUBSTANCE	: Not applicable
OXIDIZING LIQUID	: Not applicable
OXIDIZING SOLID	: Not applicable
ORGANIC PEROXIDE	: Not applicable
CORROSIVE TO METAL	: Unclassifiable

HAZARDOUS PROPERTY FOR THE HEALTH:

ACUTE TOXICITY (Oral)	: Unclassifiable
ACUTE TOXICITY (Transdermal)	: Unclassifiable
ACUTE TOXICITY (Inhalation, Gas)	: Not applicable
ACUTE TOXICITY (Inhalation, Steam)	: Unclassifiable
ACUTE TOXICITY (Inhalation, Dust, Mist)	: Unclassifiable
SKIN CORROSIVE/IRRITATION	: Unclassifiable
SERIOUS EYE DAMAGE/EYE IRRITATION	: Unclassifiable
RESPIRATORY SENSITIZATIONS	: Unclassifiable
SKIN SENSITIZATIONS	: Unclassifiable
GERM-CELL MUTAGENICITY	: Unclassifiable
CARCINOGENICITY	: Unclassifiable
REPRODUCTIVE TOXICITY	: Unclassifiable
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE	: Unclassifiable
SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE	: Unclassifiable
ASPIRATIO NHAZARD	: Unclassifiable

REPRODUCTIVE TOXICITY:

WATER ENVIRONMENT HAZARDOUS PROPERTY (ACUTE)	: Unclassifiable
WATER ENVIRONMENT HAZARDOUS PROPERTY (CHRONIC)	: Unclassifiable
HAZARDOUS PROPERTY TO THE OZONE LAYER	: Unclassifiable

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LABEL ELEMENT:

PICTORIAL REPRESENTATIONS : Not applicable
 ATTENTION AWAKENING WORD : Not applicable
 HAZARD INFORMATION : Not applicable

CAUTIONARY STATEMENTS

SAFETY MEASUREMENTS : Wash thoroughly after handling. (P264)

FIRST-AID MEASURES : 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)

ATTENTION IN THE USE : Please refer to Material Safety Data Sheet.

3. COMPOSITION, INFORMATION ON THE AN INGREDIENT:

SUBSTANCE/MIXTURE :Single substance

INGREDIENTS AND CONTENTS

No. COMPONENT	Wt%	CAS
1 Polyoxyethylene Hydrogenated Castor Oil	100	61788-85-0

4. FIRST AID MEASURES

INHALATION : Remove to fresh air and keep comfortable for breathing.
 SKIN CONTACT : Wash with plenty water.
 EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 INGESTION : 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

EXTINGUISHING MEDIA : Dry chemical, Foam chemical, Carbon dioxide, sand, Spray water.
 PROHIBITED EXTINGUISHING MEDIA : Rod-like water.
 SPECIFIC HAZARDS : To the combustion gas, contains a toxic gas such as carbon monoxide. Extinguish the fire careful not to inhale the smoke.
 SPECIFIC EXTINGUISHING METHOD : 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 MEASURES IN FIRE : To extinguish the fire appropriate protective equipment (gloves, glasses, masks, etc.) to wear.

6. ACCIDENTAL RELEASE MEASURES

CAUTIONS FOR PERSONNEL, PROTECTION AND EMERGENCY MEASURES : The work should be worn (gloves, glasses) protective equipment. If large amounts of spilled material, safely retract the human. To ensure ventilation as needed.
 CAUTIONS FOR ENVIRONMENT : Do not wash away into rivers and direct sewage spilled material.
 REMOVAL MEASURE : 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 on a secure location.

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PREVENTION OF SECOND ACCIDENT : Remove a thing becoming the nearby firing source immediately and prepare for extinguishment.
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:

ENGINEERING MEASURES : Close to the handling area, set up facilities for eyewash and body wash.
INSTRUCTIONS : Flammable – Keep Fire Away
SAFE HANDLING INSTRUCTIONS : Adequate ventilation in the workplace do. Wear appropriate protective equipment protective glasses protective gloves. After handling, wash hands and face, and then gargle.

STORAGE:

AN APPROPRIATE SAFEKEEPING CONDITION : In well-ventilated place tightly closed container. Away from flame.
A SAFE CONTAINER WRAPPING : Follow a product use container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.
CONTROL PARAMETERS : Not authorized.
PERMISSION DENSITY:
NIHON SANGYO HYGIENE SOCIETY : Not authorized.
ACGIH : Not authorized.
PROTECTIVE EQUIPMENT:
TOOL FOR RESPIRATORY PROTECTION : In normal handling is not required.
TOOL FOR PROTECTION OF THE HAND : Impermeable (chemical resistance, oil resistance, solvent resistance) protective gloves.
TOOL FOR PROTECTION OF EYES : Protection glasses with the side plate. (Need full protective glasses or goggles type safety glasses)
TOOL FOR SKIN AND PHYSICAL PROTECTION : Long-sleeved work clothes antistatic.
APPROPRIATE HYGIENE MEASURES : No information.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE

APPEARANCE : Oil
COLOR : Pale yellow
ODOR : Characteristic odor
THE THRESHOLD OF ODOR : No data
pH (MEASUREMENTS CONDITION) : No data
BOILING POINT : No data
MELT POINT : No data
FLASH POINT : 266°C (Cleveland opening type)
EVAPORATION RATE : No data.
FLAMMABILITY (A SOLID, GAS) : No data.
COMBUSTION OR EXPLOSIVE : No data.
FLAMMABLE OR EXPLOSION LIMITS (UPPER LIMITS, LOWER LIMITS) : Higher limit: No data. Lower limits: No data.
VAPOR PRESSURES : No data.
VAPOR DENSITY : No data.
SPECIFIC GRAVITY : No data.
SOLUBILITY: WATER SOLUBILITY : Insoluble
SOLUBILITY: SOLVENT SOLUBILITY : No data.

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N-PCTANOL/WATER PARTITION COEFFICIENTS	: No data.
IGNITION POINT	: No data.
AUTOIGNITION TEMPERATURES	: No data.
DECOMPOSITION TEMPERATURES	: No data.
OTHER DATA	: No data.

10. STABILITY AND REACTIVITY

STABILITY	: Conditions are stable at normal handling.
REACTIVITY	: Reactivity is low.
CONDITION WHICH SHOULD BE AVOIDED	: No information.
MATERIAL WHICH SHOULD BE AVOIDED	: No information.
INCOMPATIBLE MATERIALS	: No information.
HAZARDOUS DECOMPOSITION PRODUCTS	: No information.
OTHER DATA	: No information.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (ORAL)	: No information.
ACUTE TOXICITY (SKIN)	: No information.
ACUTE TOXICITY (INHALATION: GAS)	: No information.
ACUTE TOXICITY (INHALATION: VAPOR)	: No information.
ACUTE TOXICITY (INHALATION: DUST, MIST)	: No information.
SKIN CORROSION/IRRITATION	: No information.
CRITICAL DAMAGE/IRRITATION OVER AN EYE	: No information.
RESPIRATORY SENSITIZATION OR SKIN SENSITIZATION	: No information.
GERM-CELL MUTAGENICITY	: No information.
CARCINOGENIC PROPERTIES	: No information.
IARC	: Unauthorized.
NTP	: Unauthorized.
NIHON SANGYO HYGIENE SOCIETY	: Unauthorized.
REPRODUCTIVE TOXICITY	: No information.
SPECIFICATION TARGETS ORGAN SYSTEMATIC TOXICITY (SINGLE TIME EXPOSURE)	: No information.
SPECIFICATION TARGETS ORGAN SYSTEMATIC TOXICITY (REPEATS EXPOSURE)	: No information.
ASPIRATIONS RESPIRATORY TRACT HAZARDS	: No information.

12. ECOLOGICAL INFORMATION

ECOTOXICITY	: No information.
PERSISTENT/DEGRADABILITY	: No information.
BIOACCUMULATIVE	: No information.
MOBILITY IN SOILS	: No information.
OTHER DATA	: No information.

13. DISPOSAL CONSIDERATION

ATTENTION IN THE DISPOSAL : 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.

Incineration is done with care because contain flammable substances.

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14. TRANSPORT INFORMATION

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.
INTERNATIONAL REGULATIONS	: Comply with the rules of IATA air transport and IMDG sea transport.
UN CALSSIFICATION AND UN NUMBER	: Does not fall under the classification criteria of the United Nations United Nations classification.
IATA: UN NUMBER	:
Proper Shipping Name	:
Class	:
Packing Group	:
IMDG: UN NUMBER	:
Proper Shipping Name	:
Class	:
Packing Group	:
Additional Information	:
IBC CODE and ANNEX II MARPOL73/78	:
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	:

15. REGULATORY INFORMATION

CHEMICAL SUBSTANCES CONTROL LAW (THE SPECIFIED CHEMICAL, MONITOR CHEMICALS)	: Not applicable.							
POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW	: Not applicable.							
MATERIAL REGISTRATION INFORMATION:								
No.	ENCS (Japan)	TSCA (USA)	EINECS (EU)	AICS (Australia)	DSL (Canada)	ECL (Korea)	PICCS (Philippines)	IECSC (China)
1	8-603	Listing	Polymer	Listing	Listing	KE-05137	Unknown	Listing

16. OTHER INFORMATION:

REFERENCE:	
MANUFACTURER'S NAME	: NIHON EMULSION CO., LTD.
ADDRESS	: 5-32-7 Koenji-Minami Suginami-Ku Tokyo 166-0003 Japan
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The contents are, but we have prepared on the basis of our best research, and evaluation with respect to data described and are not necessarily sufficient to guarantee safety. Because all chemical products to the hazards of the unknown Ariel, should be handled with extreme caution. The responsibility of whom use us, we ask that you set the safe conditions of use. In addition, when special handling, please use on of the safety measures appropriate to use a new-usage. This product safety data sheet is based on the laws and regulations were made in Japan.