

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION OF THE COMPANY / UNDERTAKING

Product Name : **ESTOFORM OB**
 Application : Mould Releasing Agent
 Company : **Denka Construction Solutions Malaysia Sdn Bhd**
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2. HAZARDS IDENTIFICATION

A. Hazards Risk Classification

Aspiration toxicant	: Category 1
Flammable Liquid	: Category 4
Carcinogenicity	: Category 2,1B
Skin Corrosion / Irritation	: Category 2
Chronic aquatic toxicant	: Category 2
STOT (repeated)	: Category 2

B. Label elements including precaution statements.

- Symbol:



- Signal word: Danger / Flammable
- Hazard Risk Statement

H204	Fire or projection hazard
H226	Flammable liquid and vapour
H242	Heating may cause a fire
H304	May be fatal if swallowed and enter airways
H315	Cause skin irritation
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336	May cause drowsiness or dizziness
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

- Precautionary Statement (Prevention)
 - P201 Obtain special instruction before use
 - P202 Do not handle until all safety precautions have been read and understand.
 - P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
 - P261 Avoid breathing dust/fumes/gas/mist/vapours/spray
 - P264 Wash thoroughly after handling
 - P270 Do not eat, drink or smoke when using this product
 - P273 Avoid release to environment.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection
 - P301 + P310 IFSWALLOWED: Immediately call a poison center or doctor/physician
 - P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 - P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 - P332 + P313 If skin irritation occurs. Get medical advice / attention
 - P362 Take off contaminated clothing amend wash before reuse
- Storage
 - P403 + P233 Store in well-ventilated place. Keep container tightly closed.
 - P405 Store locked up.
- Disposal
 - P501 Dispose in contents/container in accordance with applicable local/region/national/international regulation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	Cas Number	%
Diesel	68476-34-6	85-95
Fatty Acid	101403-98-9	1-10

All constituents of this product are listed in EINECS (European inventory of Existing Commercial Chemical Substances) or EILINCS (European List of New Chemical Substances) or are exempt Refer to Section 8 for Occupational Exposure Limits.

4. FIRST AID MEASURES

Eyes :	Irrigate immediately with copious of quantities of water for several minutes. If persistent irritation occurs, obtain medical attention immediately.
Skin :	Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. Discard contaminated clothing and shoes or thoroughly clean before reuse.
Inhalation :	Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue or if any other symptoms develop.
Ingestion :	If swallowed, obtain medical attention urgently. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Carbon dioxide, powder, foam or water fog - Do not use water jet as this will only cause the product to spread on top of the water.
Special Exposure Hazards:	Toxic fumes.
Special Protective Equipment:	Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material into work area, evacuate the area immediately. Monitor area with combustible gas indicator. Wear suitable protective clothing, gloves and eye / face protection. Immediately issue NO SMOKING and NO NAKED FLAMES
Environmental Precautions:	Stop the source of the release if you can do it without risk. Prevent entry into drain, sewers and water courses.
Decontamination Procedures:	Clean up as soon as possible, observing precautions in Exposure Control/Personal Protection. Use appropriate technique such as applying non-combustible absorbent material or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposal container and dispose of in a manner consistent with applicable regulations. Report spills to local authorities as appropriate or required.

7. HANDLING AND STORAGE

Handling	Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Wash thoroughly after handling. Keep out of the reach of children.
Storage	Do not use or store near heat, sparks, flames or hot surfaces. Use and store only in well ventilated area. Keep container closed when not in use.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Diesel	CVX	100 mg/m ³	-	-	Skin total hydrocarbon

Engineering Control Measures:	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne level below the recommended exposure limit.
Personal Protective Equipment:	Impervious gloves (eg PVC). Goggles. Safety glasses / goggles. Change contaminated clothing immediately and clean before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	Light Amber
Odour	Oily Smell
pH (concentrate)	Not applicable
Boiling Point / Range (°C)	150-200
Melting Point / Range (°C)	Not applicable
Flash Point (closed °C)	>62°C
Relative Density (at 25°C)	0.820 - 0.850
Autoignition	>255
Flammability	Lower: 0.6 Upper: 4.7
Solubility	Soluble in hydrocarbon; insoluble in water

10. STABILITY AND REACTIVITY

Reactivity:	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides etc.
Chemical stability:	Consider stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to avoid:	Any source of ignition. Direct sunlight.
Materials to avoid:	Not applicable.
Hazardous Decomposition Products:	None known.
Hazardous Polymerization:	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects

On eyes:	The eye irritation hazard is based on evaluation of data for product components
On skin:	The skin irritation hazard is based on evaluation of data for product components
By Inhalation:	Mist and vapors may cause irritation to nose and respiratory tract.
By Ingestion:	May cause nausea, vomiting and diarrhea. Aspiration of liquid during ingestion or from vomiting may cause severe chemical pneumonitis.
Chronic:	Repeated and prolonged skin contact may lead to skin disorders.

12. ECOLOGICAL INFORMATION

Environmental Assessment :	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility :	No data available.
Persistence & Degradability :	Expected to be not readily biodegradable.
Bioaccumulated Potential :	No data available.
Ecotoxicity :	Expected to be toxic to aquatic and may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations.

14. TRANSPORT INFORMATION

DOT

UN Number	UN1202 & UN3082
UN Proper Shipping Name	Flammable liquid
Transport hazard classes	Combustible liquid
Packing group	III
Environmental hazard	Marine pollutant - Yes

IATA

UN Number	UN1202 & UN3082
UN Proper Shipping Name	Flammable liquid
Transport hazard classes	3
Packing group	III
Environmental hazard	Marine pollutant - Yes

IMDG

UN Number	UN1202 & UN3082
UN Proper Shipping Name	Flammable liquid
Transport hazard classes	3
Packing group	III
Environmental hazard	Marine pollutant - Yes

15: REGULATORY INFORMATION

Regulatory Lists Searched:

01-1=IARC Group 1
01-2A=IARC Group 2A
01-2B=IARC Group 2B

Chemical inventory:

All components comply with the following chemical inventory requirement:
AICS (Australia), DSL (Canada), EINECS (European Union), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United State)

16. OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Denka Construction Solutions Malaysia Sdn Bhd.

If this product has been purchased to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described to this sheet and of any precautions which should be taken. This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

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