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Form Oil
Material Safety Data Sheet

1. Description

Form Oil is a general purpose mould release fluid. It may be used for the release of concrete in moulds such as those used in the construction of formwork and shuttering. Excellent on moulds for precast fencing and similar intricate shapes.

2. Composition

Component	EINECS Number	CAS registry number	% content	Classification
Naphtha (petroleum), hydrodesulphurized, heavy	265-185-4	64742-82-1	10-50	T, R10, R36/38, R45, R46, R65
Distillate (petroleum),solvent dewaxed, paraffinic	265-157-1	64742-54-7	10-60	R36/38

3. Hazards Identification

Inhalation:	Respiratory tract irritation and may cause chemical pneumonitis
Flammability:	Flamable
Ingestion:	May cause stomach distress, nausea and vomiting
Skin Contact:	Repeated and prolonged skin contact may cause dryness, cracking and skin discolouration
Eye Contact:	May cause redness and pain
Environmental:	This product may lead to environmental contamination

3. First Aid Measures - General

- If the product splashes into the eye it may cause irritation and conjunctivitis. Indigestion may lead to irritation of the mouth, throat and digestive tract.
- Aspiration into the respiratory system may occur directly or following ingestion.
- Prolonged exposure to vapour may cause headache, dizziness, nausea and irritation to the eyes, upper respiratory tract, mouth and digestive tract.
- Obtain medical attention if discomfort continues

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4. First Aid Measures

Inhalation:	• Remove victim from exposure into fresh air, and keep affected person at rest • Obtain medical attention if irritation to respiratory tract is severe and adversely affects breathing
Ingestion:	• Seek immediate medical attention • Rinse mouth and throat • Do not induce vomiting
Skin Contact:	• Remove contaminated clothing • Rinse with soap and clean water • Refer for medical attention should irritation occur
Eye Contact:	• Rinse with clean water for several minutes occasionally lifting upper and lower lids • Do not rub eyes or keep eyes closed

5. Firefighting Measures

Hazardous combustion products may include carbon monoxide (CO) and carbon dioxide (CO_2) as well as combustion products of sulphur and nitrogen.

Extinguising Media:

- Foam or dry chemical powder.
- Carbon dioxide, sand or earth can be used for small fires
- Keep containers exposed to the fire cool by spraying with water
- The danger zone should be cleared immediately

Personal precautions:

- Avoid inhalation of vapour and aerosol spray.
- Avoid contact with eyes, and prolonged skin contact.
- Ensure adequate ventilation is provided.
- In the event of a spill, beware of slippery surfaces.

Environmental precautions:

- Do not allow environmental contamination to occur.
- Avoid disposal (accidental or incidental) of product into drains, sewers, rivers and other water sources, and onto the ground
- Use appropriate spill containment measures to avoid environmental contamination.
- **Inform local authorities if this can not be prevented**
- Use sand, earth or other appropriate absorbent material to contain spills.
- The Product should not be dumped, but collected and delivered according to agreement with local authorities.

Spill clean-up/containment:

- Stop product leaks if possible to do so without risk.
- Extinguish all ignition sources, and ensure adequate ventilation.

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- The product in its liquid form can be contained by creating a barrier using sand, earth or other appropriate containment material.
- Collect with absorbent, non-combustible material into suitable containers.
- Do not allow run-off into sewers and drains.
- Dispose of material according to agreement with local authorities. Inform authorities immediately if the liquid enters surface water sources

Protective Equipment:

- Proper protective equipment including breathing apparatus must be worn when approaching a fire

6. Handling and Storage

Usage precautions:

- Ensure good personal hygiene when handling product
- Wash hands, clothing and other contaminated areas with water and soap before leaving the work site to minimize the spread of contamination.
- Do not eat, drink or smoke when using the product.
- Avoid forming sprays/aerosol mist
- Ensure adequate ventilation is provided when product is being used
- Ensure personal protective equipment is used where necessary

Storage Conditions:

- Store the product in its original container and ensure that the container is tightly closed and kept upright.
- Store in a cool, dry, and well-ventilated area.
- Ensure that the relevant spill containment apparatus is available.
- Exposure to excessive temperatures should be avoided.
- Water contamination should be avoided.
- The product is suitable for short-term storage in mild steel and high-density polyethylene (HDPE) containers.

7. Exposure controls and personal protection

Engineering Measures:

- Provide adequate ventilation
- Observe occupational exposure limits and minimize risk of inhalation of vapour.

Respiratory Equipment:

- The use of respiratory equipment under normal operating conditions is not required.
- Should operating conditions create airborne concentrations that are excessive, the use of an approved respirator such as toxic dust, mist and fume respirators are recommended

Hand Protection:

- The use of chemical-resistant, nitrile or butyl rubber gloves is recommended

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Eye Protection:

- The use of tightly-fitted safety goggles/glasses is recommended when splashing is probable.

Other Protection:

- Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene Measures:

- Wash contaminated clothing promptly and before re-use
- Wash skin with soap and water upon contamination.

Occupational Exposure:

- The ACGIH TLV for chemical mist is 104mg.m^{-3} for a time period of 8-hour exposure.
- A Short-term exposure limit of 52 mg.m^{-3} (STEL) is recommended

8. Physical and Chemical Properties

Physical State and Appearance	Clear amber liquid at ambient temperature
Odour	Hydrocarbon
Solubility	Insoluble in water
Vapour density (air=1)	Heavier than air
Density at 20˚C	860 kg.m^{-3} (typical)
Viscosity @ 40˚C	9.00 cSt (typical)

9. Stability and Reactivity

Stability	Clear amber liquid at ambient temperature
Materials to avoid	Strong oxidizing agents, halogens and halogenated compounds
Conditions to avoid	Extremes of temperatures
Hazardous Decomposition Products	None under normal conditions known

10. Toxicological Information

Health Warnings:

- The product is not considered hazardous under normal conditions of use.
- May cause irritation to eyes, and irritation to skin under prolonged exposure or contact.

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Routes on Entry:

- Inhalation, ingestion, skin or eye contact.

11. Toxicological Data

Inhalation	Not considered a hazard under normal use
Eye Irritation	Can be irritating
Respiratory Irritation	If mist is inhaled, irritation of the respiratory tract may occur
Skin Irritation	Can be irritating upon prolonged exposure
Carcinogenicity	Not known to be carcinogenic.
Mutagenicity	Not considered to be a mutagenetic hazard
Reproductive Toxicity	Not considered to be a hazard
Toxicity	Oral, LD50 > 5g/kg (rat)

12. Ecological Information

Ecotoxicity:

- The product may cause physical fouling of the aquatic environment, and may present risks associated with oil spills.

Bioaccumulation:

- The product has the ability to bioaccumulate.
- No available data on bioaccumulation.

Degradability:

- No available data on degradability.

13. Disposal Considerations

- Waste relating to the product is considered hazardous, and should be disposed of according to regulations as stipulated by local authorities.

14. Disposal Considerations

- This product is classified as flammable, and should be transported under conditions as outlined in the requirement for transportation of hazardous material.

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15. Regulatory Information

- Phrases R10, R36/38, R45, R46, R65